

AD-A183 307

BOSCOMBE DOWN UNITED KINGDOM LIMITED SURFACE  
OBSERVATIONS CLIMATEIC SUMMAR (U) AIR FORCE  
ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT

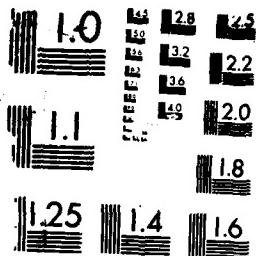
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UNCLASSIFIED

06 JUL 87 USAFETAC/DS-87/048

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ML



MICROCOPY RESOLUTION TEST CHART

ADA183307

UK 037460 USAFETAC/DS-87/048

RECEIVED  
U.S. AIR FORCE  
TELEMETRY  
DIVISION  
APO, NY 02225-5458

19 JAN 1988

**OPERATING LOCATION - A**  
**USAFETAC**  
**Air Weather Service (MAC)**

DTIC  
ELECTED  
S JAN 26 1988  
D



"LIMITED SURFACE OBSERVATIONS"  
CLIMATIC SUMMARY "LISOCs"

BOSCOMBE DOWN UK MSC #037460  
N 51 10 W 001 44 ELEV 407 FT EGDM

PARTS A - F HOURS SUMMARIZED: 0000 - 2300  
HRS VARIABLE

PERIOD OF RECORD:  
HOURLY OBSERVATIONS: MAY 77 - APR 87  
SUMMARY OF DAY DATA: NONE

"Approved for public release;  
Distribution Unlimited"  
**FEDERAL BUILDING**  
**ASHEVILLE, N.C. 28801 - 2723**

881 26 023

|                     |                                     |
|---------------------|-------------------------------------|
| Accession for       |                                     |
| NMS                 | CEP&I                               |
| DNC                 | TIR                                 |
| Information         | <input checked="" type="checkbox"/> |
| Jennifer            | <input type="checkbox"/>            |
| By                  |                                     |
| Bart                |                                     |
| A - Quality Control |                                     |
| Date 8-10-87        |                                     |
| Date                | Specia                              |
| A-1                 |                                     |

LIMITED SURFACE OBSERVATIONS CLIMATIC SUMMARY

STATION NAME: BOSCOMBE DOWN UK NL  
STATION NUMBER: 0374

PERIOD OF RECORD:

CALL ID: EGDM

HOURS SUMMARIZED: 0000 - 2300 LST

HOURLY OBSERVATIONS: MAY 77 - APR 87

SUMMARY OF DAY DATA: NO AWS FROMS 10A AVAILABLE FROM WHICH TO OBTAIN DATA.

TIME CONVERSION LST TO GMT: 0

DATE PRODUCED: 6 JUL 87

OL-A/USAFETAC/MAC/AWS  
ASHEVILLE NC 28801

LIMITED SURFACE OBSERVATIONS CLIMATIC SUMMARIES--LISOCs

HOURLY OBSERVATIONS: ALL RECORD OR RECORD SPECIAL OBSERVATIONS RECORDED ON THE AWS FORMS 10/1DA AT SCHEDULED HOURLY INTERVALS.

SUPPLEMENTAL DATA: DATA DERIVED FROM EARLIER PERIODS IF AVAILABLE, AND/OR FROM ONE OR MORE REPRESENTATIVE SITES AND COMBINED BY A METEOROLOGIST.

DESCRIPTION OF SUMMARIES: PRECEDING EACH PART OF THE RUSSWO IS A BRIEF DISCUSSION OF THE SUMMARY INCLUDING THE MANNER OF PRESENTATION.  
HOURLY SUMMARIES CONTAINING "TOTALS" AND "ALL HOURS" ARE ONLY FOR THOSE HOURS SUMMARIZED. IN COMPUTING THESE VALUES THE VALUES IN THE 3-HOUR TIME GROUPS WERE ADDED AND DIVIDED BY THE NUMBER OF GROUPS.

STANDARD 3-HOUR TIME GROUPS: IN ALL SUMMARIES SHOWING DIURNAL VARIATIONS, WE SUMMARIZE DATA USING THE FOLLOWING EIGHT 3-HOUR TIME PERIODS IN LOCAL STANDARD TIME: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 LST.

FOR A DETAILED DESCRIPTION OF EACH SUMMARY WITH EXAMPLES AND EXERCISES ON ITS USAGE, SEE USAFETAC/TN-83-001, "AN AID FOR USING THE REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS" (RUSSWO).

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PART E: TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

PART F: PRESSURE SUMMARIES

SUPPLEMENTAL DATA SECTION--SUMMARY OF DAY DATA

AWSMSC NUMBER: THIS NUMBER IS THE AIR WEATHER SERVICE MASTER STATION CATALOG NUMBER. THIS NUMBER IS COMPRISED OF THE WMO NUMBER WITH THE ADDITION OF A SUFFIX (0 THROUGH 9). IN CASES WHERE THERE IS NO DESIGNATED WMO NUMBER, A 5-DIGIT NUMBER IS CREATED IN AGREEMENT WITH WMO RULES PLUS A SIXTH DIGIT. THESE NUMBERS ARE ALSO REFERRED TO AS DATSAV OR USAFETAC NUMBERS WHICH UNIQUELY IDENTIFY MORE THAN 15,000 REPORTING STATIONS WORLD WIDE.

NOTE: THE FIRST AND LAST HOUR GROUPS MAY OR MAY NOT CONTAIN ALL THREE HOURS. SEE HOURS SUMMARIZED ON COVER OR STATION HISTORY SHEET TO DETERMINE WHICH HOURS ARE INCLUDED IN THESE TWO HOUR GROUPS.

| STATION NO OR SUBSIDIARY<br>037460           | STATION NAME<br>BOScombe Down UK | LATITUDE<br>51 10 N               | LONGITUDE<br>001 44 W | FIELD ELEV (FT)<br>403 | CALL SIGN<br>EGDM | WHO NUMBER  |                     |            |             |
|--|----------------------------------|-----------------------------------|-----------------------|------------------------|-------------------|---|---------------------|------------|-------------|
| STATION LOCATION AND INSTRUMENTATION HISTORY |                                  |                                   |                       |                        |                   |   |                     |            |             |
| NUMBER OF LOCATIONS                          | GEOGRAPHICAL LOCATION & NAME     | TYPE OF STATION                   | AT THIS LOCATION      |                        | LATITUDE          | LONGITUDE   | ELEVATION ABOVE MSL |            | OBS PER DAY |
|  |                                  |                                   | FROM                  | TO                     |                   |   | FIELD FT            | HT BARO.   |             |
| 1  | Boscombe Down UK<br>Same         | BMO<br>Same                       | UNK<br>Jan 82         | DEC 82<br>Apr 87       | 51 10 N<br>SAME   | 001 45 W<br>001 44 W                                | 403<br>407          | UNK<br>UNK | 24<br>24    |
| NUMBER OF CHANGES                            | DATE OF CHANGE                   | SURFACE WHO EQUIPMENT INFORMATION |                       |                        |                   | REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE |                     |            |             |
|  |                                  | LOCATION                          | TYPE OF TRANSMITTER   | TYPE OF RECORDER       | HT ABOVE GROUND   |   |                     |            |             |
|  |                                  | UNION                             | UNION                 | UNION                  |                   |   |                     |            |             |

USAFETAC FORM NO. 0-19 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

CONTINUED ON REVERSE SIDE

PPPPPPPP PAAAAAA RRRRRRRR TTTTTTTT  
PPPPPPPPP AAAAAAA RRRRRRRR TT  
PP PP AA AA RR RR TT  
PP PP AA AA RRRRRRRR TT  
PPPPPPPPP AA AA RRRRRRRR TT  
PPPPPPPPP AAAAAAAA RR RR TT  
PP AA AA RR RR TT  
PP AA AA RR RR TT  
PP AA AA RR RR TT

## WEATHER CONDITIONS AND ATMOSPHERIC PHENOMENA SUMMARIES

### WEATHER CONDITIONS SUMMARY

1. A PERCENTAGE FREQUENCY OCCURRENCE SUMMARY OF VARIOUS ATMOSPHERIC PHENOMENA AND OBSTRUCTIONS TO VISION.
2. DATA BASED ON HOURLY OBSERVATIONS.
3. SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

### DEFINITIONS:

THUNDERSTORMS: ALL REPORTED THUNDERSTORMS, TORNADOES AND WATERSPOUTS.

RAIN AND/OR DRIZZLE: ALL REPORTED RAIN AND OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING RAIN AND/OR FREEZING DRIZZLE (GLAZE): ALL REPORTED FREEZING RAIN OR FREEZING DRIZZLE.

SNOW AND/OR SLEET: SNOW INCLUDING SNOW PELLETS AND GRAINS, ICE CRYSTALS AND PELLETS, AND/OR SLEET (ICE PELLETS).

HAIL: ALL REPORTED HAIL.

ALL PRECIPITATION: THIS CATEGORY INCLUDES ALL OBSERVATIONS REPORTING PRECIPITATION. BECAUSE MORE THAN ONE TYPE OF PRECIPITATION MAY APPEAR IN A SINGLE OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL COLUMNS MAY EXCEED THE PERCENTAGES IN THIS COLUMN.

FOG: ALL REPORTED FOG, ICE FOG AND GROUND FOG.

SMOKE AND/OR HAZE: ALL REPORTED SMOKE, HAZE AND ANY COMBINATION THEREOF.

BLLOWING SNOW: ALL REPORTED BLOWING SNOWS INCLUDING DRIFTING WHEN REPORTED.

DUST AND/OR SAND: ALL REPORTED DUST, SAND, BLOWING DUST, BLOWING SAND AND ANY COMBINATION THEREOF. THE ATMOSPHERIC PHENOMENA SUMMARY (DAYS WITH) INCLUDES ONLY THOSE REPORTS WHEN THE PHENOMENA VISIBILITY LESS THAN 5/8 MILES (1000 METERS).

ALL OBSTRUCTIONS TO VISION: INCLUDES ALL REPORTS OF OBSTRUCTIONS TO VISION (FOG THRU DUST/SAND) AND BLOWING SPRAY. BECAUSE MORE THAN ONE PHENOMENA PER OBSERVATION MAY OCCUR, THE SUM OF THE INDIVIDUAL COLUMNS MAY EXCEED THIS COLUMN.

### NOTES:

1. A VALUE IN THE TABLES OF ".0" INDICATES LESS THAN .05% OCCURRENCE WHICH IS USUALLY ONLY ONE OCCURRENCE

2. METAR STATIONS (BEGINNING IN JAN 1968) AND SYNOPTIC REPORTING STATIONS RECORDED ON THE AWS FORMS 10/10A AND TRANSMITTED LONGLINE ONLY THE HIGHEST ORDER OF ATMOSPHERIC PHENOMENA OBSERVED. BEGINNING IN JAN 1970, METAR STATIONS RECORDED ALL OBSERVED PHENOMENA BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE OBSERVATION CONTAINED RAIN, FOG AND SMOKE, ALL THREE WILL APPEAR ON THE AWS FORMS 10/10A, BUT ONLY THE RAIN WAS TRANSMITTED LONGLINE. THEREFORE ONLY THE RAIN APPEARS IN OUR DATA BASE FOR HOURLY SUMMARIZATION. THIS PRACTICE EFFECTS THE PERCENTAGES IN THE TABLES.

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: JAN

| HOURS<br>(LST) | TS TMS | RAIN<br>C/OR<br>DRIZZLE | FRZNG<br>RAIN<br>C/OR<br>DRIZZLE | SNOW<br>C/OR<br>SLEET | HAUL<br>WITH<br>PRECIP | FOG  | SMOKE<br>C/OR<br>HAZE | DUST<br>C/OR<br>SAND | % OBS<br>W/CBST | TOTAL<br>OBS |      |
|----------------|--------|-------------------------|----------------------------------|-----------------------|------------------------|------|-----------------------|----------------------|-----------------|--------------|------|
|                |        |                         |                                  |                       |                        |      |                       |                      | TO<br>VISION    |              |      |
| 00-02          |        | 15.3                    | .3                               | 5.0                   | 18.7                   | 12.8 | 14.0                  |                      | 26.8            | 884          |      |
| 03-05          |        | 16.2                    | .2                               | 3.9                   | .1                     | 19.2 | 12.5                  | 13.2                 |                 | 25.7         | 891  |
| 06-08          |        | 16.0                    | .6                               | 4.4                   | 19.8                   | 12.1 | 10.7                  | .1                   | 22.9            | 891          |      |
| 09-11          |        | 16.9                    |                                  | 5.7                   | 20.7                   | 11.4 | 10.4                  |                      | 21.9            | 883          |      |
| 12-14          |        | 16.5                    | .1                               | 5.1                   | .1                     | 21.1 | 6.0                   | 12.9                 |                 | 18.8         | 886  |
| 15-17          |        | 16.5                    | .1                               | 4.6                   | .1                     | 20.2 | 4.4                   | 13.8                 |                 | 18.2         | 892  |
| 18-20          |        | 14.2                    | .2                               | 3.3                   | 17.0                   | 6.7  | 17.0                  | .2                   | 24.0            | 892          |      |
| 21-23          |        | 15.1                    | .2                               | 2.9                   | 17.9                   | 9.4  | 16.9                  | .1                   | 26.4            | 887          |      |
| TOTALS         |        | 15.8                    | .2                               | 4.4                   | .0                     | 19.3 | 9.4                   | 13.6                 | .1              | 23.1         | 7106 |

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB

| HOURS<br>(LST) | TS TMS | RAIN<br>C/OR<br>DRIZZLE | FRZNG<br>RAIN<br>C/OR<br>DRIZZLE | SNOW<br>C/OR<br>SLEET | HAUL<br>WITH<br>PRECIP | FOG  | SMOKE<br>C/OR<br>HAZE | DUST<br>C/OR<br>SAND | % OBS<br>W/CBST | TOTAL<br>OBS |
|----------------|--------|-------------------------|----------------------------------|-----------------------|------------------------|------|-----------------------|----------------------|-----------------|--------------|
|                |        |                         |                                  |                       |                        |      |                       |                      | TO<br>VISION    |              |
| 00-02          |        | 15.2                    | .1                               | 6.6                   | 21.1                   | 13.1 | 25.7                  | .1                   | 38.9            | 833          |
| 03-05          |        | 16.6                    | .7                               | 7.0                   | 23.2                   | 15.3 | 23.9                  |                      | 39.2            | 837          |
| 06-08          |        | 16.2                    | .2                               | 5.2                   | 20.9                   | 16.4 | 24.3                  | .2                   | 41.4            | 842          |
| 09-11          |        | 17.3                    |                                  | 5.0                   | 22.0                   | 11.6 | 26.9                  | 1.0                  | 39.4            | 837          |
| 12-14          |        | 14.8                    |                                  | 4.4                   | 19.2                   | 3.6  | 21.6                  | .6                   | 25.7            | 843          |
| 15-17          |        | 15.9                    |                                  | 4.3                   | 19.7                   | 3.1  | 21.1                  | .6                   | 24.8            | 834          |
| 18-20          |        | 14.5                    | .1                               | 4.2                   | 17.9                   | 5.9  | 25.3                  | .4                   | 31.5            | 837          |
| 21-23          |        | 15.4                    | .4                               | 5.6                   | 20.8                   | 10.2 | 25.4                  |                      | 35.6            | 835          |
| TOTALS         |        | 15.7                    | .2                               | 5.3                   | 20.6                   | 10.0 | 24.3                  | .4                   | 34.6            | 6698         |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: MAR

| HOURS<br>(LST) | TSTMS | RAIN<br>E/OR<br>DRIZZLE | FRZNG<br>E/OR<br>RAIN<br>SLEET | SNOW<br>E/OR<br>DRIZZLE | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>E/OR<br>SAND | % OBS<br>W/CBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|--------------------------------|-------------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          |       | 20.3                    |                                | 2.9                     |      | 22.3                    | 11.9 | 13.4                  |                 |                      | 25.4                            | 922          |
| 03-05          |       | 21.8                    |                                | 3.5                     |      | 24.2                    | 14.5 | 12.6                  |                 |                      | 27.1                            | 923          |
| 06-08          |       | 21.5                    |                                | 3.7                     | .1   | 24.1                    | 15.7 | 12.9                  |                 |                      | 28.6                            | 924          |
| 09-11          |       | .1                      | 22.6                           | 4.0                     |      | 25.3                    | 6.1  | 13.0                  |                 |                      | 19.1                            | 922          |
| 12-14          |       | 21.1                    |                                | 2.9                     | .1   | 23.3                    | 1.0  | 12.6                  |                 |                      | 13.6                            | 918          |
| 15-17          |       | .1                      | 21.5                           | 2.0                     | .1   | 23.1                    | .4   | 12.8                  |                 |                      | 13.2                            | 922          |
| 18-20          |       | 21.4                    |                                | 1.6                     |      | 22.4                    | 2.6  | 14.4                  |                 |                      | 17.0                            | 921          |
| 21-23          |       | 17.7                    |                                | 1.7                     |      | 18.7                    | 7.6  | 15.1                  |                 |                      | 22.7                            | 922          |
| TOTALS         |       | .0                      | 21.0                           | 2.8                     | .0   | 22.9                    | 7.5  | 13.4                  |                 |                      | 20.8                            | 7374         |

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: APR

| HOURS<br>(LST) | TSTMS | RAIN<br>E/OR<br>DRIZZLE | FRZNG<br>E/OR<br>RAIN<br>SLEET | SNOW<br>E/OR<br>DRIZZLE | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>E/OR<br>SAND | % OBS<br>W/CBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|-------|-------------------------|--------------------------------|-------------------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          |       | 13.9                    |                                | 1.2                     |      | 14.4                    | 6.3  | 14.9                  |                 |                      | 23.3                            | 890          |
| 03-05          |       | 12.2                    |                                | 1.3                     |      | 13.1                    | 13.5 | 19.7                  |                 |                      | 33.3                            | 893          |
| 06-08          |       | 14.1                    |                                | .7                      |      | 14.4                    | 10.7 | 20.5                  |                 |                      | 30.6                            | 896          |
| 09-11          |       | 14.1                    |                                | .4                      | .1   | 14.5                    | 1.5  | 13.3                  |                 |                      | 14.8                            | 894          |
| 12-14          |       | 13.5                    |                                | .5                      | .2   | 14.0                    | .1   | 7.2                   |                 |                      | 7.3                             | 888          |
| 15-17          |       | .3                      | 13.2                           | .2                      | .1   | 13.3                    |      | 5.8                   |                 |                      | 5.8                             | 894          |
| 18-20          |       | 12.3                    |                                | .6                      |      | 12.7                    | .6   | 11.9                  |                 |                      | 12.4                            | 892          |
| 21-23          |       | .1                      | 14.1                           | .3                      |      | 14.5                    | 3.4  | 15.0                  |                 |                      | 18.4                            | 885          |
| TOTALS         |       | .1                      | 13.4                           | .7                      | .1   | 13.9                    | 4.7  | 13.5                  |                 |                      | 18.2                            | 7132         |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY

| HOURS<br>(LST) | TS THS | RAIN<br>E/OR<br>DRIZZLE | FRZNG<br>E/OR<br>DRIZZLE | SNOW<br>E/OR<br>SEET | HAUL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>BLLOWING<br>HAZE | DUST<br>E/OR<br>W/OBST<br>SNOW<br>SAND | % OBS<br>TO<br>VISION | TOTAL<br>OBS |      |
|----------------|--------|-------------------------|--------------------------|----------------------|------|-------------------------|------|-----------------------------------|--|-----------------------|--------------|------|
| 00-02          |        | .5                      | 13.1                     |                      |      | 13.1                    | 11.9 | 12.8                              |  | 24.6                  | 925          |      |
| 03-05          |        | .3                      | 13.3                     |                      |      | 13.3                    | 20.9 | 12.8                              |  | 33.7                  | 928          |      |
| 06-08          |        | .2                      | 15.7                     |                      |      | 15.7                    | 9.5  | 18.1                              |  | 27.6                  | 927          |      |
| 09-11          |        |                         | 16.1                     |                      |      | 16.1                    | .4   | 14.3                              |  | 14.7                  | 924          |      |
| 12-14          |        | .4                      | 14.7                     |                      | .3   | .1                      | 14.9 |                                   | 8.4                                    |                       | 918          |      |
| 15-17          |        | 1.1                     | 13.3                     |                      |      | .2                      | 13.5 | 6.1                               |  | 6.1                   | 924          |      |
| 18-20          |        | .5                      | 12.2                     |                      | .2   | 12.2                    | 1.1  | 8.1                               |  | 9.2                   | 923          |      |
| 21-23          |        | .2                      | 12.6                     |                      |      | 12.6                    | 4.3  | 15.4                              |  | 19.8                  | 926          |      |
| TOTALS         |        | .4                      | 13.9                     |                      | .1   | .0                      | 13.9 | 6.0                               | 12.0                                   |                       | 18.0         | 7395 |

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN

| HOURS<br>(LST) | TS THS | RAIN<br>E/OR<br>DRIZZLE | FRZNG<br>E/OR<br>DRIZZLE | SNOW<br>E/OR<br>SEET | HAUL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>BLLOWING<br>HAZE | DUST<br>E/OR<br>W/OBST<br>SNOW<br>SAND | % OBS<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|--------|-------------------------|--------------------------|----------------------|------|-------------------------|------|-----------------------------------|--|-----------------------|--------------|
| 00-02          |        | 1.3                     | 12.7                     |                      |      | 12.7                    | 11.3 | 13.1                              |  | 24.3                  | 880          |
| 03-05          |        | .6                      | 13.6                     |                      |      | 13.6                    | 19.9 | 11.9                              |  | 31.8                  | 883          |
| 06-08          |        | .2                      | 13.3                     |                      |      | 13.3                    | 8.2  | 16.3                              |  | 24.5                  | 883          |
| 09-11          |        | .1                      | 11.8                     |                      |      | 11.8                    | .4   | 13.2                              |  | 13.6                  | 889          |
| 12-14          |        | .7                      | 9.2                      |                      |      | 9.2                     | .1   | 6.8                               |  | 6.9                   | 884          |
| 15-17          |        | .9                      | 10.8                     |                      |      | 10.4                    |      | 5.4                               |  | 5.4                   | 884          |
| 18-20          |        | .6                      | 10.1                     |                      | .1   | 10.3                    |      | 5.7                               |  | 5.7                   | 877          |
| 21-23          |        | .5                      | 11.8                     |                      |      | 11.8                    | 3.4  | 10.6                              |  | 14.0                  | 880          |
| TOTALS         |        | .6                      | 11.6                     |                      | .0   | 11.6                    | 5.4  | 10.4                              |  | 15.8                  | 7060         |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL

| HOURS<br>(LST) | TS TMS | RAIN<br>DRIZZLE | FRZNG<br>RAIN<br>E/OR<br>SLEET<br>DRIZZLE | SNOW<br>E/OR | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>E/OR<br>SAND | % OBS<br>W/OBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|--------|-----------------|---|--------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          |        | .4              | 9.3                                       |              |      | 9.3                     | 9.2  | 13.6                  |                 |                      | 22.8                            | 902          |
| 03-05          |        | 1.1             | 10.1                                      |              |      | 10.1                    | 18.0 | 16.8                  |                 |                      | 34.7                            | 913          |
| 06-08          |        | .4              | 10.3                                      |              |      | 10.3                    | 6.0  | 17.3                  |                 |                      | 23.3                            | 900          |
| 09-11          |        | .4              | 8.7                                       |              |      | 8.7                     | .5   | 11.0                  |                 |                      | 11.5                            | 910          |
| 12-14          |        | .3              | 6.9                                       |              |      | 6.9                     |      | 7.7                   |                 |                      | 7.7                             | 900          |
| 15-17          |        | .8              | 7.9                                       |              |      | 7.9                     |      | 5.2                   |                 |                      | 5.2                             | 910          |
| 18-20          |        | .3              | 7.6                                       |              |      | 7.6                     |      | 6.9                   |                 |                      | 6.9                             | 905          |
| 21-23          |        | .4              | 8.0                                       |              |      | 8.0                     | 1.7  | 14.8                  |                 |                      | 16.5                            | 905          |
| TOTALS         |        | .5              | 8.6                                       |              |      | 8.6                     | 9.4  | 11.7                  |                 |                      | 16.1                            | 7245         |

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG

| HOURS<br>(LST) | TS TMS | RAIN<br>DRIZZLE | FRZNG<br>RAIN<br>E/OR<br>SLEET<br>DRIZZLE | SNOW<br>E/OR | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>E/OR<br>SAND | % OBS<br>W/OBST<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|--------|-----------------|---|--------------|------|-------------------------|------|-----------------------|-----------------|----------------------|---------------------------------|--------------|
| 00-02          |        | .1              | 11.3                                      |              |      | 11.3                    | 12.4 | 16.3                  |                 |                      | 28.7                            | 890          |
| 03-05          |        |                 | 11.1                                      |              |      | 11.1                    | 25.7 | 13.2                  |                 |                      | 38.9                            | 914          |
| 06-08          |        | .3              | 11.5                                      |              |      | 11.5                    | 16.4 | 15.4                  |                 |                      | 31.7                            | 899          |
| 09-11          |        | .1              | 11.0                                      |              |      | .1                      | 11.1 | .9                    | 12.4            |                      | 13.3                            | 910          |
| 12-14          |        | .1              | 10.0                                      |              |      | 10.0                    |      | 7.6                   |                 |                      | 7.6                             | 911          |
| 15-17          |        |                 | 10.8                                      |              |      | 10.8                    |      | 8.6                   |                 |                      | 8.6                             | 899          |
| 18-20          |        | 1.1             | 13.2                                      |              |      | 13.2                    | .3   | 11.2                  |                 |                      | 11.5                            | 896          |
| 21-23          |        | .7              | 11.3                                      |              |      | 11.3                    | 4.3  | 18.9                  |                 |                      | 23.2                            | 901          |
| TOTALS         |        | .3              | 11.3                                      |              |      | .0                      | 11.3 | 7.5                   | 13.0            |                      | 20.4                            | 7220         |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: SEP

| HOURS<br>(LST) | TSTM | RAIN<br>& OR<br>DRIZZLE | FRZNG<br>RAIN<br>& OR<br>DRIZZLE | SNOW<br>& OR<br>SLEET | HAUL<br>WITH<br>PRECIP | FOG  | SMOKE<br>& OR<br>HAZE | DUST<br>& OR<br>SAND | % OBS<br>W/CBSI<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|------|-------------------------|----------------------------------|-----------------------|------------------------|------|-----------------------|----------------------|---------------------------------|--------------|
| 00-02          | .1   | 10.9                    |                                  |                       | 10.9                   | 16.0 | 12.9                  |                      | 28.9                            | 889          |
| 03-05          | .1   | 13.0                    |                                  |                       | 13.0                   | 22.1 | 11.3                  |                      | 33.5                            | 890          |
| 06-08          |      | 12.8                    |                                  |                       | 12.8                   | 19.9 | 10.9                  |                      | 30.8                            | 884          |
| 09-11          |      | 14.6                    |                                  |                       | 14.6                   | 2.7  | 12.9                  |                      | 15.6                            | 890          |
| 12-14          |      | 10.1                    |                                  |                       | 10.1                   | .6   | 9.2                   |                      | 9.8                             | 887          |
| 15-17          | .2   | 10.7                    |                                  |                       | 10.7                   | .6   | 10.0                  |                      | 10.5                            | 891          |
| 18-20          | .2   | 10.2                    |                                  |                       | 10.2                   | 2.1  | 15.9                  |                      | 18.0                            | 889          |
| 21-23          | .1   | 11.3                    |                                  |                       | 11.3                   | 10.1 | 17.2                  |                      | 27.2                            | 885          |
| TOTALS         | .1   | 11.7                    |                                  |                       | 11.7                   | 9.3  | 12.5                  |                      | 21.8                            | 7105         |

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: OCT

| HOURS<br>(LST) | TSTM | RAIN<br>& OR<br>DRIZZLE | FRZNG<br>RAIN<br>& OR<br>DRIZZLE | SNOW<br>& OR<br>SLEET | HAUL<br>WITH<br>PRECIP | FOG  | SMOKE<br>& OR<br>HAZE | DUST<br>& OR<br>SAND | % OBS<br>W/CBSI<br>TO<br>VISION | TOTAL<br>OBS |
|----------------|------|-------------------------|----------------------------------|-----------------------|------------------------|------|-----------------------|----------------------|---------------------------------|--------------|
| 00-02          |      | 13.9                    |                                  |                       | 13.9                   | 20.0 | 9.8                   |                      | 29.8                            | 923          |
| 03-05          |      | 15.7                    |                                  |                       | 15.7                   | 22.2 | 8.9                   |                      | 31.1                            | 924          |
| 06-08          |      | 17.3                    |                                  |                       | 17.3                   | 23.6 | 9.8                   |                      | 33.4                            | 925          |
| 09-11          | .1   | 16.7                    |                                  |                       | 16.7                   | 7.0  | 12.8                  |                      | 19.8                            | 923          |
| 12-14          |      | 17.6                    |                                  |                       | 17.6                   | .9   | 10.4                  |                      | 11.3                            | 919          |
| 15-17          |      | 17.6                    |                                  |                       | 17.6                   | .3   | 11.5                  |                      | 11.9                            | 919          |
| 18-20          |      | 15.6                    |                                  |                       | 15.6                   | 5.2  | 17.1                  |                      | 22.3                            | 925          |
| 21-23          | .1   | 16.6                    |                                  |                       | 16.6                   | 12.1 | 11.1                  |                      | 23.2                            | 922          |
| TOTALS         | .5   | 16.4                    |                                  |                       | 16.4                   | 11.4 | 11.4                  |                      | 22.9                            | 7380         |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86

MONTH: NOV

| HOURS<br>(LST) | TS TMS | RAIN<br>E/OR<br>DRIZZLE | FRZING<br>E/OR<br>RAIN | SNOW<br>E/OR<br>SLEET | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | DUST<br>E/OR<br>BLLOWING<br>SNOW | % OBS<br>W/CBST | TOTAL<br>TO<br>VISION | % OBS |
|----------------|--------|-------------------------|------------------------|-----------------------|------|-------------------------|------|-----------------------|----------------------------------|-----------------|-----------------------|-------|
| 00-02          |        | 16.3                    |                        | .4                    |      | 16.4                    | 14.5 | 12.7                  |                                  |                 | 27.3                  | 895   |
| 03-05          |        | 18.5                    |                        | .4                    |      | 18.6                    | 14.2 | 10.9                  |                                  |                 | 25.1                  | 896   |
| 06-08          |        | 15.7                    |                        | .6                    |      | 15.9                    | 17.5 | 10.2                  |                                  |                 | 27.7                  | 893   |
| 09-11          |        | 14.7                    |                        | .4                    |      | 14.9                    | 10.9 | 12.7                  |                                  |                 | 23.5                  | 892   |
| 12-14          |        | 18.9                    |                        | .8                    |      | 19.2                    | 4.1  | 9.6                   |                                  |                 | 13.8                  | 892   |
| 15-17          |        | 21.3                    |                        |                       |      | 21.3                    | 4.0  | 11.0                  |                                  |                 | 15.0                  | 893   |
| 18-20          |        | 18.7                    |                        | .4                    |      | 18.8                    | 8.2  | 12.3                  |                                  |                 | 20.5                  | 893   |
| 21-23          |        | 17.7                    |                        | .3                    |      | 17.7                    | 11.3 | 12.3                  |                                  |                 | 23.5                  | 897   |
| TOTALS         |        | 17.7                    |                        | .4                    |      | 17.9                    | 10.6 | 11.5                  |                                  |                 | 22.1                  | 7151  |

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86

MONTH: DEC

| HOURS<br>(LST) | TS TMS | RAIN<br>E/OR<br>DRIZZLE | FRZING<br>E/OR<br>RAIN | SNOW<br>E/OR<br>SLEET | HAIL | % OBS<br>WITH<br>PRECIP | FOG  | SMOKE<br>E/OR<br>HAZE | DUST<br>E/OR<br>BLLOWING<br>SNOW | % OBS<br>W/CBST | TOTAL<br>TO<br>VISION | % OBS |
|----------------|--------|-------------------------|------------------------|-----------------------|------|-------------------------|------|-----------------------|----------------------------------|-----------------|-----------------------|-------|
| 00-02          |        | 21.3                    |                        | 2.0                   |      | 22.3                    | 14.0 | 7.4                   |                                  |                 | 21.4                  | 897   |
| 03-05          |        | 22.2                    |                        | 1.4                   |      | 23.1                    | 14.7 | 8.2                   | .1                               |                 | 23.0                  | 900   |
| 06-08          |        | 22.4                    |                        | 2.5                   |      | 23.9                    | 14.0 | 7.5                   | .2                               |                 | 21.7                  | 896   |
| 09-11          |        | 21.5                    |                        | 2.0                   |      | 23.0                    | 11.5 | 10.5                  | .2                               |                 | 22.3                  | 901   |
| 12-14          |        | 18.9                    |                        | 1.2                   |      | 20.0                    | 5.6  | 10.9                  |                                  |                 | 16.5                  | 899   |
| 15-17          |        | 20.3                    |                        | 1.7                   |      | 21.8                    | 6.3  | 10.7                  |                                  |                 | 16.9                  | 891   |
| 18-20          |        | 21.2                    |                        | 1.9                   |      | 22.5                    | 10.5 | 11.0                  |                                  |                 | 21.5                  | 901   |
| 21-23          |        | 20.6                    |                        | 2.1                   |      | 22.0                    | 13.6 | 9.1                   |                                  |                 | 22.7                  | 903   |
| TOTALS         |        | 21.1                    |                        | 1.9                   |      | 22.3                    | 11.3 | 9.4                   | .1                               |                 | 20.8                  | 7188  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-87  
MONTH: ALL

|           |         |          |           |         |
|-----------|---------|----------|-----------|---------|
| PPPPPPPP  | AAAAAA  | RRRRRRR  | TTTTTTTTT | CCCCC   |
| PPPPPPPPP | AAAAAAA | RRRRRRRR | TTTTTTTTT | CCCCCC  |
| PP PP     | AA AA   | RR RR    | TT        | CC CC   |
| PP PP     | AA AA   | RR RR    | TT        | CC      |
| PPPPPPPPP | AA AA   | RRRRRRRR | TT        | CC      |
| PPPPPPPP  | AAAAAAA | RRRRRRR  | TT        | CC      |
| PP        | AAAAAAA | RR RR    | TT        | CC CC   |
| PP        | AA AA   | RR RR    | TT        | CCCCCCC |
| PP        | AA AA   | RR RR    | TT        | CCCCC   |
| PP        | AA AA   | RR RR    | TT        |         |

BIVARIATE PERCENTAGE FREQUENCY TABULATIONS OF SURFACE WINDS  
DATA DERIVED FROM HOURLY DATA.

PRESNTED ARE THE PERCENTAGE FREQUENCY OF WIND DIRECTION TO 16 COMPASS POINTS, CALM AND VARIABLE  
VERSUS WIND SPEED IN KNOTS IN INCREMENTS OF BEAUFORT CLASSIFICATIONS.  
PERCENTAGES ARE SHOWN BY BOTH DIRECTIONS AND SPEED, AND IN ADDITION THE MEAN WIND SPEED IS GIVEN  
FOR EACH DIRECTION.

DATA PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).  
A SEPARATE ANNUAL TABLE PRESENTS THE SAME BIVARIATE DISTRIBUTIONS WITH IMPOSED CEILING/VISIBILITY  
LIMITATIONS: WHEN VISIBILITY IS EQUAL TO OR GREATER THAN 1/2 MILES, THE CEILINGS ARE 200 TO 1400 FEET AND/OR WHEN  
THE CEILING IS EQUAL TO OR GREATER THAN 200 FEET, THE VISIBILITIES ARE 1/2 THROUGH 2 1/2 MILES.  
A PERCENTAGE VALUE OF ".00" IN THESE TABLES INDICATES ONE OR MORE OCCURRENCES AMOUNTING TO LESS THAN .05%.

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: JAN HOURS(LST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .5                  | 1.5  | 2.5  | 1.6   | .5    | .3    |       |       |       |       |            | 6.8          | 9.7  |
| NNE                    | .1                  | .6   | .6   | .3    | .5    | .2    |       |       |       |       |            | 2.3          | 11.3 |
| NE                     | .5                  | .3   | .6   | .5    | .1    | .1    |       |       |       |       |            | 2.0          | 9.0  |
| ENE                    |                     | .2   | .9   | 1.7   | .7    | .3    |       |       |       |       |            | 3.8          | 13.6 |
| E                      | .6                  | .5   | 2.0  | 2.4   | .3    | .3    |       |       |       |       |            | 6.1          | 10.8 |
| ESE                    | .3                  | 1.0  | .7   | .9    |       | .2    |       |       |       |       |            | 3.2          | 9.4  |
| SE                     | .2                  | .9   | 1.6  | .9    | .2    | .6    |       |       |       |       |            | 4.3          | 10.8 |
| SSE                    | .3                  | 1.1  | 1.4  | .5    | .8    | .3    | .1    |       |       |       |            | 4.5          | 11.1 |
| S                      | .3                  | 1.4  | 3.1  | 1.1   | .7    | .7    | .1    |       |       |       |            | 7.4          | 11.2 |
| SSW                    | .2                  | .5   | 1.8  | 1.8   | .7    | .2    | .1    |       |       |       |            | 5.3          | 12.1 |
| SW                     | .3                  | .1   | 2.3  | 2.4   | .6    | .8    |       |       |       |       |            | 6.4          | 12.4 |
| WSW                    | .2                  | 2.5  | 3.1  | 3.9   | .2    | .2    |       |       |       |       |            | 10.1         | 9.9  |
| W                      | 1.0                 | 1.8  | 2.8  | 5.2   | 2.7   | 1.0   | .3    |       |       |       |            | 14.9         | 12.9 |
| NNW                    | 2.0                 | 2.0  | 1.4  | 2.1   | 1.2   | .2    |       |       |       |       |            | 9.0          | 9.3  |
| NW                     | 1.0                 | .7   | 1.6  | .7    | .3    |       |       |       |       |       |            | 4.3          | 7.9  |
| NNW                    | .6                  | 1.9  | 1.2  | .5    | .2    |       |       |       |       |       |            | 4.4          | 7.3  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            | 5.1          | /    |
| TOTALS                 | 8.3                 | 17.0 | 27.4 | 26.2  | 9.7   | 5.7   | .7    |       |       |       |            | 100.0        | 10.2 |

TOTAL NUMBER OF OBSERVATIONS: 884

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC      FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: JAN      HOURS/LST: 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | 56-60 |       |            |              |
| N                      | .4                  | 1.5  | 1.9  | 1.9   | .4    | .6    |       |       |       |       |       | 6.6   | 10.2       |              |
| NNE                    | .4                  | .2   | 1.1  | .3    | .6    |       |       |       |       |       |       | 2.7   | 10.0       |              |
| NE                     | .1                  | .8   | 1.3  | 1.2   | .1    | .2    |       |       |       |       |       | 3.8   | 10.4       |              |
| ENE                    | .3                  | .2   | 1.3  | 1.0   | .7    | .2    |       |       |       |       |       | 3.8   | 11.7       |              |
| E                      | .4                  | 1.1  | 2.2  | 1.6   | .7    | .4    |       |       |       |       |       | 6.5   | 10.8       |              |
| ESE                    | .3                  | .4   | 1.0  | 1.1   | .2    | .2    |       |       |       |       |       | 3.4   | 10.5       |              |
| SE                     | .6                  | 1.2  | 1.5  | .3    | .1    |       |       |       |       |       |       | 3.8   | 7.9        |              |
| SSE                    | .1                  | 1.0  | 1.7  | 1.0   | .6    | .1    | .2    |       |       |       |       | 4.7   | 11.4       |              |
| S                      | .4                  | .4   | 2.4  | .9    | .6    | .6    |       |       |       |       |       | 5.3   | 11.3       |              |
| SSW                    | .8                  | .2   | 1.9  | 1.9   | .4    | .4    | .2    |       |       |       |       | 5.9   | 11.8       |              |
| SW                     | .2                  | .3   | 1.9  | 2.6   | 1.7   | .7    | .1    |       |       |       |       | 7.5   | 13.7       |              |
| WSW                    | .7                  | 1.7  | 2.6  | 3.5   | .7    |       |       |       |       |       |       | 9.1   | 10.0       |              |
| W                      | 1.0                 | 2.4  | 2.6  | 5.7   | 2.1   | .8    | .1    |       |       |       |       | 14.7  | 11.9       |              |
| WNW                    | 1.3                 | 1.6  | 1.6  | 3.3   | 1.0   | .2    |       |       |       |       |       | 9.0   | 10.3       |              |
| NW                     | .9                  | 1.5  | 2.2  | 1.0   | .4    |       |       |       |       |       |       | 6.1   | 8.4        |              |
| NNW                    | .8                  | .4   | 1.3  | .4    |       |       |       |       |       |       |       | 3.0   | 7.1        |              |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |       |            |              |
| CALM                   |                     |      |      |       |       |       |       |       |       |       |       |       | 4.0        |              |
| TOTALS                 | 9.0                 | 15.0 | 28.6 | 27.7  | 10.3  | 4.5   | .7    | .1    |       |       |       | 100.0 | 10.3       |              |

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: JAN HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.7                 | .7   | 2.1  | 1.7   | .7    |       |       |       |       |       |       | 6.8        | 8.6          |
| NNE                    | .1                  | .8   | 1.0  | 1.3   | .3    |       |       |       |       |       |       | 3.6        | 10.3         |
| NE                     | .2                  | .6   | .8   | 1.3   | .1    |       |       |       |       |       |       | 3.0        | 9.4          |
| ENE                    | .6                  | .8   | 1.3  | 2.1   | .6    |       |       |       |       |       |       | 5.4        | 10.4         |
| E                      |                     | .6   | 2.5  | 1.9   | .4    | .6    |       |       |       |       |       | 5.8        | 11.8         |
| ESE                    | .4                  | .1   | .6   | .6    | .1    | .1    |       |       |       |       |       | 1.9        | 9.5          |
| SE                     | .2                  | .6   | 1.1  | .8    | .1    | .2    |       |       |       |       |       | 3.0        | 10.1         |
| SSE                    |                     | .7   | 2.4  | .9    |       | .1    |       |       |       |       |       | 4.0        | 9.4          |
| S                      | .6                  | 2.2  | 4.4  | 1.1   | .4    | .3    |       |       |       |       |       | 9.1        | 9.0          |
| SSW                    | .6                  | .7   | 2.1  | 1.1   | .6    | .3    |       |       |       |       |       | 5.4        | 10.8         |
| SW                     | .4                  | .8   | 1.6  | 2.4   | 1.1   | .9    |       |       |       |       |       | 6.8        | 13.2         |
| WSW                    | .6                  | .3   | 2.1  | 3.8   | .9    | .1    |       |       |       |       |       | 7.9        | 11.5         |
| W                      | .9                  | 1.7  | 3.0  | 5.9   | 2.7   | 1.1   | .1    |       |       |       |       | 15.5       | 12.5         |
| WNW                    | 1.1                 | 1.9  | 2.0  | 2.9   | .8    |       |       |       |       |       |       | 8.8        | 9.5          |
| NW                     | 1.8                 | 1.1  | 1.0  | 2.1   | .1    |       |       |       |       |       |       | 6.2        | 7.8          |
| NNW                    | .8                  | .6   | 1.1  | 1.3   |       |       |       |       |       |       |       | 3.8        | 8.4          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 2.9        | /            |
| TOTALS                 | 10.0                | 13.7 | 29.2 | 31.3  | 9.0   | 3.8   | .1    |       |       |       |       | 100.0      | 10.1         |

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: JAN HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .6                  | 1.2  | 1.1  | 2.3   | .3    |       |       |       |       |       |            | 5.5          | 9.8  |
| HNE                    | .5                  | .5   | 1.2  | 1.8   | .2    |       |       |       |       |       |            | 4.2          | 9.9  |
| NE                     | .2                  | .2   | 1.7  | .3    |       |       |       |       |       |       |            | 2.5          | 8.3  |
| ENE                    | .5                  | .3   | 2.0  | 1.8   | .3    | .1    |       |       |       |       |            | 5.1          | 10.5 |
| E                      | .1                  | .9   | 2.8  | 1.8   | .9    | .6    |       |       |       |       |            | 7.1          | 11.8 |
| ESE                    | .1                  | .6   | .9   | .8    | .1    |       |       |       |       |       |            | 2.5          | 9.0  |
| SE                     | .5                  | .6   | .9   | .8    |       |       |       |       |       |       |            | 2.7          | 7.8  |
| SSE                    | .1                  | 1.2  | 2.2  | .5    | .2    | .2    |       |       |       |       |            | 4.4          | 9.3  |
| S                      | .5                  | 1.5  | 3.7  | 1.9   | .6    | .5    |       |       |       |       |            | 8.6          | 10.3 |
| SSW                    | .5                  | .6   | 1.7  | 2.3   | .7    | .8    | .3    |       |       |       |            | 6.8          | 13.1 |
| SW                     | .3                  | .6   | 1.0  | 2.8   | 1.0   | .1    |       |       |       |       |            | 5.9          | 11.9 |
| WSW                    | .2                  | .7   | 1.4  | 4.7   | .9    | .2    |       |       |       |       |            | 7.6          | 12.0 |
| W                      | 1.0                 | 1.6  | 2.2  | 8.0   | 2.2   | .8    | .6    | .1    |       |       |            | 16.4         | 13.2 |
| WNW                    | 1.7                 | 1.7  | 1.9  | 3.3   | .7    | .9    |       |       |       |       |            | 10.2         | 10.6 |
| NW                     | .9                  | 1.1  | .9   | 1.8   | .2    |       |       |       |       |       |            | 5.0          | 7.8  |
| NNW                    | .7                  | 1.1  | .7   | 1.7   |       |       |       |       |       |       |            | 3.7          | 8.2  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 1.7          | /    |
| TOTALS                 | 8.3                 | 14.4 | 26.4 | 35.7  | 8.4   | 4.2   | .9    | .1    |       |       |            | 100.0        | 10.7 |

TOTAL NUMBER OF OBSERVATIONS: 883

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/HAC

STATION NUMBER: 033640 S

STATION NUMBER: 037480

TOTAL NUMBER OF OBSERVATIONS: 886

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: JAN HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | 1.0                 | 1.8  | 1.5  | 2.4   | .2    |       |       |       |       |       |            | 6.8          | 8.5  |
| NNE                    | .6                  | .8   | 1.2  | 1.9   | .2    |       |       |       |       |       |            | 4.6          | 9.2  |
| NE                     | .3                  | .7   | .8   | .6    | .3    |       |       |       |       |       |            | 2.7          | 9.2  |
| FNE                    | .2                  | .4   | 1.0  | 1.3   | .3    | .3    |       |       |       |       |            | 3.7          | 11.8 |
| E                      | .1                  | 1.0  | 1.6  | 1.7   | 1.2   | .3    |       |       |       |       |            | 5.9          | 11.8 |
| ESE                    | .1                  | 1.2  | 1.3  | .4    |       |       |       | .1    |       |       |            | 3.3          | 8.4  |
| SE                     | .2                  | 1.1  | .7   | 1.7   | .2    | .1    |       |       |       |       |            | 3.6          | 9.9  |
| SSE                    | .4                  | 1.1  | .3   | .4    | .9    | .1    |       |       |       |       |            | 2.9          | 9.0  |
| S                      | 1.1                 | 2.2  | 2.1  | 2.7   | 1.1   | .2    |       |       |       |       |            | 9.5          | 9.8  |
| SSW                    | .6                  | .7   | 1.7  | 1.2   | .9    | .1    |       |       |       |       |            | 5.2          | 11.0 |
| SW                     | .2                  | 1.2  | 1.6  | 2.2   | .8    | .4    |       |       |       |       |            | 6.2          | 16.0 |
| WSW                    | .2                  | 1.3  | 2.9  | 2.5   | .6    | .3    |       |       |       |       |            | 7.8          | 10.5 |
| W                      | .3                  | 1.0  | 2.9  | 7.4   | 2.7   | 1.5   | .6    |       |       |       |            | 16.4         | 19.2 |
| NNW                    | .9                  | .9   | 2.1  | 3.6   | 1.3   | 1.1   |       |       |       |       |            | 10.0         | 12.6 |
| NW                     | .4                  | 1.0  | 2.1  | 2.0   | .3    | .6    |       |       |       |       |            | 6.5          | 10.8 |
| NNW                    | .3                  | .8   | 1.0  | 1.9   | .1    | .2    |       |       |       |       |            | 4.4          | 10.6 |
| <hr/>                  |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | .6           | 11.1 |
| TOTALS                 | 7.0                 | 16.4 | 24.6 | 32.7  | 12.3  | 5.9   | 1.1   |       |       |       |            | 100.0        | 11.3 |

TOTAL NUMBER OF OBSERVATIONS: 892

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFE/TAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: JAN      HOURS(LST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | 1.3                 | 1.7  | 1.8  | 1.8   |       |       |       |       |       |       |            | 6.6          | 7.7  |
| NNE                    |                     | .9   | 1.5  | 1.0   | 1.0   |       |       |       |       |       |            | 4.4          | 11.0 |
| NE                     | .1                  | .9   | 1.1  | .4    | .3    |       |       |       |       |       |            | 2.9          | 9.1  |
| ENE                    | .2                  | .6   | .7   | 1.0   | .2    | .3    |       |       |       |       |            | 3.0          | 11.3 |
| E                      | .4                  | 1.0  | 1.7  | 2.6   | 1.6   |       |       |       |       |       |            | 7.3          | 11.6 |
| ESE                    | .1                  | .6   | 1.0  | 1.5   | .4    |       |       |       |       |       |            | 3.6          | 10.8 |
| SE                     | .2                  | 1.1  | 1.1  | .5    | .7    | .1    |       |       |       |       |            | 3.6          | 9.8  |
| SSF                    | .3                  | .6   | .9   | .8    |       | .2    |       |       |       |       |            | 2.8          | 9.3  |
| S                      | .3                  | 1.3  | 2.7  | 2.0   | .8    | .2    |       |       |       |       |            | 7.4          | 10.5 |
| SSW                    | .2                  | 1.2  | 2.4  | 2.4   | 1.0   |       |       |       |       |       |            | 7.2          | 10.7 |
| SW                     | .2                  | .6   | 1.9  | 2.6   | .8    | .8    | .1    | .2    |       |       |            | 7.2          | 13.6 |
| WSW                    | .6                  | .9   | 2.7  | 3.3   | .3    | .1    |       |       |       |       |            | 7.8          | 10.5 |
| W                      | 1.8                 | 1.2  | 3.5  | 7.0   | 1.9   | 1.0   | .6    |       |       |       |            | 16.9         | 12.2 |
| NNW                    | .9                  | 1.9  | 1.5  | 2.9   | .6    | .4    |       |       |       |       |            | 8.2          | 9.9  |
| NW                     | .4                  | 1.0  | .9   | 1.6   | .2    | .2    |       |       |       |       |            | 4.4          | 9.9  |
| NNW                    | .7                  | 1.3  | 1.5  | 1.0   |       | .1    | .2    |       |       |       |            | 4.8          | 8.7  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            | 1.9          | /    |
| TOTALS                 | 8.0                 | 16.9 | 26.7 | 32.1  | 9.9   | 3.6   | .9    | .2    |       |       |            | 100.0        | 10.5 |

TOTAL NUMBER OF OBSERVATIONS: 892

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .9                  | 1.1  | 1.5  | 2.0   |       | .3    |       |       |       |       | 5.7        | 9.2          |
| NNE                    | .2                  | .6   | 1.0  | .7    | .3    | .3    |       |       |       |       | 3.2        | 11.1         |
| NE                     | .1                  | .3   | 1.7  | .5    | .3    |       |       |       |       |       | 2.9        | 9.8          |
| ENE                    |                     | .6   | .5   | 1.9   | .3    | .3    |       |       |       |       | 3.6        | 13.1         |
| E                      | .7                  | 1.2  | 2.5  | 2.4   | 1.0   |       |       |       |       |       | 7.8        | 10.1         |
| ESE                    | .1                  | .5   | .9   | .7    | .2    | .1    |       |       |       |       | 2.5        | 10.5         |
| SE                     | .5                  | .8   | 1.5  | .8    | .1    | .5    | .1    |       |       |       | 4.2        | 10.6         |
| SSE                    | .7                  | .8   | .5   | .8    | .3    | .2    | .1    |       |       |       | 3.4        | 10.4         |
| S                      | .5                  | 1.0  | 3.7  | 1.9   | .7    | .3    | .1    |       |       |       | 8.2        | 10.6         |
| SSW                    | .5                  | .6   | 1.2  | 2.0   | .8    | .3    |       |       |       |       | 5.4        | 11.7         |
| SW                     | .1                  | .6   | 3.2  | 2.5   | 1.1   | .2    |       | .1    |       |       | 7.8        | 11.9         |
| WSW                    | .5                  | 1.0  | 2.6  | 3.7   | .5    |       | .1    |       |       |       | 8.3        | 10.8         |
| W                      | 1.2                 | 1.9  | 2.9  | 6.5   | 2.0   | .9    | .2    |       |       |       | 15.8       | 12.0         |
| NNW                    | 1.9                 | 1.7  | 1.5  | 2.1   | 1.0   | .3    |       |       |       |       | 8.6        | 9.5          |
| NW                     | .6                  | .9   | 1.7  | .7    | .5    |       |       |       |       |       | 4.3        | 8.8          |
| NNW                    | .9                  | 1.4  | 1.9  | 1.1   | .1    |       |       |       |       |       | 4.7        | 7.8          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 3.6        | /            |
| TOTALS                 | 9.0                 | 14.0 | 28.1 | 30.3  | 9.8   | 3.9   | .7    | .1    |       |       | 100.0      | 10.3         |

TOTAL NUMBER OF OBSERVATIONS: 887

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
USAFETAC FROM HOURLY OBSERVATIONS  
AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 76-87  
MONTH: JAN HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |            |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|------------|--------------|------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55      | GE 56        |            |
| N                      | .8                  | 1.3  | 1.8  | 2.0   | .3    | .2    |       |       |       |            |              | 6.4 9.2    |
| NNE                    | .3                  | .6   | 1.1  | 1.1   | .4    | .1    |       |       |       |            |              | 3.5 10.3   |
| NE                     | .2                  | .5   | 1.2  | .8    | .2    | .0    |       |       |       |            |              | 3.0 9.6    |
| ENE                    | .2                  | .5   | 1.2  | 1.5   | .4    | .2    | .0    |       |       |            |              | 4.0 11.6   |
| E                      | .4                  | .9   | 2.1  | 2.1   | .9    | .3    |       |       |       |            |              | 6.7 11.3   |
| ESE                    | .3                  | .5   | .9   | .8    | .2    | .1    | .0    |       |       |            |              | 2.8 9.6    |
| SE                     | .4                  | .9   | 1.2  | .8    | .2    | .2    | .0    | .0    |       |            |              | 3.6 9.5    |
| SSE                    | .3                  | .7   | 1.2  | .7    | .3    | .2    | .1    |       |       |            |              | 3.6 10.0   |
| S                      | .6                  | 1.5  | 3.0  | 1.9   | .7    | .4    | .0    |       |       |            |              | 8.1 10.3   |
| SSW                    | .4                  | .6   | 1.8  | 1.9   | .8    | .4    | .1    | .0    |       |            |              | 6.0 12.0   |
| SW                     | .2                  | .4   | 1.8  | 2.4   | 1.3   | .6    | .1    | .0    |       |            |              | 6.8 13.4   |
| WSW                    | .4                  | 1.1  | 2.4  | 3.5   | .6    | .1    | .0    |       |       |            |              | 8.2 10.7   |
| W                      | 1.0                 | 1.6  | 2.8  | 6.5   | 2.5   | 1.1   | .4    | .0    |       |            |              | 15.9 12.9  |
| NNW                    | 1.4                 | 1.5  | 1.7  | 3.0   | 1.1   | .6    | .1    | .0    |       |            |              | 9.4 10.9   |
| NW                     | .9                  | 1.0  | 1.5  | 1.9   | .9    | .2    |       |       |       |            |              | 5.3 9.3    |
| NNW                    | .6                  | 1.0  | 1.1  | 1.2   | .1    | .0    | .0    |       |       |            |              | 4.1 8.6    |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |            |              |            |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /          | /            | 2.6 //     |
| TOTALS                 | 8.3                 | 14.8 | 26.9 | 31.5  | 10.4  | 4.6   | .8    | .1    |       |            |              | 100.0 10.7 |

TOTAL NUMBER OF OBSERVATIONS: 7106

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS**

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .8                  | 1.6  | 2.2  | .7    | .5    |       |       |       |       |       |       | 5.8        | 8.0          |
| NNE                    | .1                  | 1.4  | 1.7  | 2.9   | .2    | .1    |       |       |       |       |       | 6.4        | 10.2         |
| NE                     | .5                  | .7   | 1.6  | 4.4   | .8    | .5    |       |       |       |       |       | 8.5        | 12.0         |
| ENE                    | .9                  | .7   | 2.6  | 4.3   | 2.0   | .2    | .1    |       |       |       |       | 10.4       | 12.8         |
| E                      | 1.2                 | 1.6  | 4.7  | 7.1   | 1.3   | .7    |       |       |       |       |       | 16.8       | 11.0         |
| ESE                    | .2                  | .4   | 1.0  | 1.6   |       |       |       |       |       |       |       | 3.1        | 9.9          |
| SE                     | .4                  | 1.1  | .6   | 2.5   | .5    |       |       |       |       |       |       | 5.0        | 10.8         |
| SSE                    | .4                  | 1.2  | 1.3  | .5    | .1    | .1    |       |       |       |       |       | 3.6        | 7.7          |
| S                      | .5                  | 1.7  | 2.9  | 3.2   | 1.0   |       |       |       |       |       |       | 9.2        | 10.4         |
| SSW                    | .4                  | .4   | 1.0  | 1.9   | .6    |       |       |       |       |       |       | 4.2        | 11.3         |
| SW                     |                     | .1   | .7   | .8    | .6    | .2    | .2    |       |       |       |       | 2.8        | 15.4         |
| WSW                    | .2                  | .7   | 1.4  | 1.6   | .2    |       |       |       |       |       |       | 4.2        | 9.9          |
| W                      | .2                  | .2   | 1.0  | 2.3   | .6    | .6    | .1    |       |       |       |       | 5.0        | 13.8         |
| WNW                    | 1.6                 | .2   | 1.3  | 1.7   | .5    | .5    |       |       |       |       |       | 5.3        | 10.0         |
| NW                     | 1.3                 | .6   | .7   | .4    |       |       |       |       |       |       |       | 3.0        | 5.5          |
| NNW                    | .5                  | .6   | 1.0  | .2    | .4    |       |       |       |       |       |       | 2.6        | 8.4          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 4.0        | /            |
| TOTALS                 | 8.6                 | 13.4 | 25.6 | 35.5  | 9.4   | 3.0   | .5    |       |       |       |       | 100.0      | 10.3         |

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: FEB HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .8                  | 2.7  | 2.7  | 1.6   | .1    |       |       |       |       |       |            | 7.4          | 7.9  |
| NNE                    | .1                  | .6   | 1.6  | 2.2   | .8    | .1    |       |       |       |       |            | 5.4          | 11.9 |
| NE                     | .4                  | .5   | 1.6  | 3.6   | .7    | .2    |       |       |       |       |            | 6.9          | 11.8 |
| ENE                    | .8                  | 1.0  | 2.5  | 4.2   | 1.7   | .8    | .1    |       |       |       |            | 11.1         | 12.6 |
| E                      | 1.1                 | 1.9  | 6.0  | 6.2   | 1.0   | .5    | .2    |       |       |       |            | 16.8         | 10.8 |
| ESE                    | .4                  | .6   | 1.1  | 1.8   |       |       |       |       |       |       |            | 3.8          | 9.4  |
| SE                     | .5                  | 1.0  | .2   | 2.2   | .1    |       |       |       |       |       |            | 3.9          | 9.7  |
| SSE                    | .5                  | .6   | 1.1  | .9    |       |       |       |       |       |       |            | 3.0          | 7.8  |
| S                      | .7                  | 1.0  | 3.3  | 2.0   | 1.1   | .2    |       |       |       |       |            | 8.4          | 10.4 |
| SSW                    | .4                  | .7   | 1.0  | 1.9   | .7    |       |       |       |       |       |            | 4.2          | 12.1 |
| SW                     | .2                  | .1   | 1.1  | .5    | .6    | .4    |       |       |       |       |            | 2.9          | 12.6 |
| WSW                    | .2                  | .4   | 1.1  | 1.3   | .2    |       |       |       |       |       |            | 3.2          | 10.4 |
| W                      | 1.0                 | .7   | 1.3  | 2.2   | .5    | .4    |       |       |       |       |            | 6.0          | 10.7 |
| WNW                    | .6                  | 1.1  | 1.1  | 1.2   | .8    | .7    | .1    |       |       |       |            | 5.6          | 11.9 |
| NW                     | 1.2                 | 1.1  | .7   | .2    | .1    |       |       |       |       |       |            | 3.3          | 6.0  |
| NNW                    | .8                  | .8   | 1.0  |       | .4    |       |       |       |       |       |            | 3.0          | 6.9  |
| <hr/>                  |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 5.0          | 11.1 |
| TOTALS                 | 9.7                 | 13.6 | 27.2 | 31.8  | 8.8   | 3.3   | .5    |       |       |       |            | 100.0        | 10.0 |

TOTAL NUMBER OF OBSERVATIONS: 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .6                  | 2.4  | 2.3  | 2.4   | .2    |       |       |       |       |       | 7.8        | 8.3          |
| NNE                    | .1                  | .4   | 1.4  | 1.9   | .6    |       |       |       |       |       | 4.9        | 10.6         |
| NE                     | .7                  | .1   | 2.3  | 3.2   | 1.0   | .8    |       |       |       |       | 8.1        | 12.6         |
| ENE                    | .6                  | .8   | 3.7  | 4.3   | 1.5   | .5    |       |       |       |       | 11.4       | 11.8         |
| E                      | .8                  | 2.0  | 5.0  | 6.4   | 1.3   | .6    |       |       |       |       | 16.2       | 11.0         |
| ESE                    | 1.1                 | .7   | 1.1  | 2.5   |       |       |       |       |       |       | 5.3        | 8.9          |
| SE                     | .6                  | 1.1  | .7   | 1.2   |       |       |       |       |       |       | 3.6        | 8.2          |
| SSE                    | .5                  | .4   | .8   | 1.0   |       |       |       |       |       |       | 2.7        | 8.2          |
| S                      | .6                  | .7   | 3.6  | 2.9   | 1.1   |       |       |       |       |       | 8.8        | 10.5         |
| SSW                    | .2                  | .4   | 1.3  | 2.6   | .1    |       |       |       |       |       | 4.6        | 11.1         |
| SW                     | .4                  | .7   | 1.0  | 1.0   | .4    |       |       |       |       |       | 2.9        | 10.0         |
| WSW                    | .5                  | .4   | .8   | 1.5   |       |       |       |       |       |       | 2.7        | 9.5          |
| W                      | .7                  | .6   | 1.8  | 2.7   | .5    | .6    |       |       |       |       | 6.2        | 11.8         |
| WNW                    | .6                  | 1.5  | 1.1  | .2    | .6    | .6    | .1    |       |       |       | 5.3        | 10.5         |
| NW                     | 1.0                 | .7   | .6   |       | .1    |       |       |       |       |       | 2.4        | 5.5          |
| NNW                    | .5                  | 1.0  | .5   | .5    | .2    | .4    |       |       |       |       | 3.0        | 9.7          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 4.2        | 10.0         |
| TOTALS                 | 9.4                 | 13.9 | 27.3 | 34.1  | 7.6   | 3.4   | .1    |       |       |       | 100.0      | 10.0         |

TOTAL NUMBER OF OBSERVATIONS: 842

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: FEB HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |               |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|------------|--------------|---------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55      | GE 56        |               |
| N                      | .8                  | 1.3  | 1.6  | 2.5   | .4    |       |       |       |       |            |              | 6.6    9.1    |
| NNE                    | .2                  | .4   | 2.6  | 1.4   | .2    | .4    |       |       |       |            |              | 5.3    10.7   |
| NE                     | .4                  | .5   | 1.8  | 3.8   | 1.0   | .6    |       |       |       |            |              | 8.0    12.6   |
| F NE                   | .6                  | .5   | 2.2  | 3.1   | 2.3   | 1.1   | .1    |       |       |            |              | 9.8    13.9   |
| E                      | .6                  | 1.3  | 4.2  | 7.5   | 3.3   | .4    |       |       |       |            |              | 17.3    12.4  |
| ESE                    | .6                  | .9   | 1.7  | 2.3   | .4    |       |       |       |       |            |              | 5.7    9.9    |
| SE                     | .8                  | 1.1  | 1.2  | 2.2   |       |       |       |       |       |            |              | 5.3    8.8    |
| SSE                    | .7                  | 1.1  | 1.3  | 1.9   | .2    |       |       |       |       |            |              | 5.3    9.0    |
| S                      | 1.1                 | 1.3  | 2.2  | 2.7   | 1.2   | .1    |       |       |       |            |              | 8.6    10.5   |
| SSW                    | .2                  | .4   | 1.3  | 1.9   | .7    |       |       |       |       |            |              | 4.5    11.6   |
| SW                     | .1                  | 1.3  | 1.1  | .2    |       |       |       |       |       |            |              | 2.7    11.1   |
| WSW                    | .8                  | .2   | 1.1  | .2    |       |       |       |       |       |            |              | 2.6    10.5   |
| W                      | .5                  | .7   | 1.1  | 2.4   | .8    | .5    | .1    |       |       |            |              | 6.1    12.1   |
| WNW                    | 1.2                 | .1   | 1.0  | .7    | .6    | .2    | .1    |       |       |            |              | 3.9    10.2   |
| NW                     | 1.1                 | .5   | .4   | .8    | .1    | .2    |       |       |       |            |              | 3.1    8.7    |
| NNW                    | .4                  | 1.6  | 1.1  | .5    |       | .4    |       |       |       |            |              | 3.8    8.7    |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |            |              |               |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /          | /            | 1.3    /      |
| TOTALS                 | 9.2                 | 12.4 | 25.0 | 36.2  | 11.7  | 3.8   | .4    |       |       |            |              | 100.0    10.9 |

TOTAL NUMBER OF OBSERVATIONS: 837

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |     |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .4                  | 1.1 | 2.0  | 2.4   | .8    |       |       |       |       |       |            | 6.6          | 10.4 |
| NNE                    | .5                  | .6  | 2.8  | 2.7   | .5    |       |       |       |       |       |            | 7.1          | 10.5 |
| NE                     | .1                  | .6  | 1.8  | 2.4   | 1.5   | 1.1   |       |       |       |       |            | 7.5          | 14.2 |
| ENE                    | .2                  | .5  | 1.3  | 4.2   | 1.8   | 1.2   |       |       |       |       |            | 9.1          | 15.0 |
| E                      | .2                  | 1.3 | 3.3  | 6.0   | 2.1   | .6    |       |       |       |       |            | 13.6         | 12.6 |
| ESE                    | .4                  | .2  | 1.1  | 3.9   | .9    | .2    |       |       |       |       |            | 6.8          | 13.2 |
| SE                     | .7                  | .9  | 1.2  | 2.6   | .8    |       |       |       |       |       |            | 6.3          | 10.5 |
| SSE                    | .2                  | .5  | 1.8  | 1.5   | .2    |       |       |       |       |       |            | 4.3          | 10.1 |
| S                      | 1.2                 | 1.3 | 1.8  | 3.3   | 1.5   | .2    |       |       |       |       |            | 9.4          | 11.3 |
| SSW                    | .5                  | .4  | .2   | 2.1   | .8    | .1    |       |       |       |       |            | 4.2          | 12.7 |
| SW                     | .1                  | .1  | .6   | 2.0   | .7    |       |       |       |       |       |            | 3.6          | 12.9 |
| WSW                    | .2                  | .1  | .5   | 2.5   |       |       |       |       |       |       |            | 3.3          | 11.3 |
| W                      | 1.3                 | .5  | .7   | 2.5   | 1.4   | .5    | .1    |       |       |       |            | 7.1          | 12.9 |
| WNW                    | .2                  | .2  | 1.1  | 1.4   | .5    | .6    |       |       |       |       |            | 4.0          | 13.6 |
| NW                     | .4                  | .7  | .2   | .6    | .4    | .6    |       |       |       |       |            | 2.4          | 13.6 |
| NNW                    | .1                  | .9  | 1.7  | .3    | .6    |       |       |       |       |       |            | 3.9          | 9.9  |
| VARIABLE               |                     |     |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /   | /    | /     | /     | /     | /     | /     | /     | /     |            | .6           | /    |
| TOTALS                 | 6.8                 | 9.6 | 22.1 | 41.0  | 14.1  | 5.5   | .1    |       |       |       |            | 100.0        | 12.1 |

TOTAL NUMBER OF OBSERVATIONS: 843

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .1                  | 1.2  | 1.4  | 1.9   | .6    |       |       |       |       |       | 5.3        | 10.3         |
| NNE                    | .2                  | 1.2  | 2.5  | 2.9   | .1    | .1    |       |       |       |       | 7.1        | 10.1         |
| NE                     |                     | 1.1  | 2.9  | 2.5   | 1.6   | .7    |       |       |       |       | 8.8        | 12.7         |
| ENE                    | .2                  | .7   | 2.2  | 3.5   | 2.4   | 1.6   | .1    |       |       |       | 10.7       | 14.9         |
| E                      | 1.4                 | 1.8  | 3.5  | 4.3   | 2.0   |       |       |       |       |       | 13.1       | 10.7         |
| ESE                    | .7                  | .2   | 2.3  | 3.7   | .2    | .4    |       |       |       |       | 7.6        | 11.4         |
| SE                     |                     | 1.4  | .7   | 2.6   | .5    |       |       |       |       |       | 5.3        | 11.2         |
| SSE                    | .6                  | .7   | .6   | 1.6   |       |       |       |       |       |       | 3.5        | 8.8          |
| S                      | .2                  | 1.0  | 2.5  | 4.0   | .8    | .5    |       |       |       |       | 9.0        | 11.9         |
| SSW                    |                     | .2   | .2   | 1.8   | 1.1   |       |       |       |       |       | 3.4        | 10.5         |
| SW                     | .2                  | .1   | .2   | 1.4   | 1.2   |       |       |       |       |       | 3.2        | 13.7         |
| WSW                    | .2                  | .6   | .4   | 1.0   | .1    |       |       |       |       |       | 2.3        | 9.7          |
| W                      | .1                  | .7   | 1.2  | 3.6   | 2.0   | .7    | .4    |       |       |       | 8.8        | 10.5         |
| NNW                    | .7                  | .9   | .7   | 1.1   | .5    | .1    |       |       |       |       | 4.0        | 9.5          |
| NW                     | .4                  | .6   | .7   | .9    | .7    | .4    |       |       |       |       | 3.1        | 11.5         |
| NNW                    |                     | 1.3  | 1.3  | .7    | .1    | .4    |       |       |       |       | 3.8        | 10.0         |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 1.3        | /            |
| TOTALS                 | 5.3                 | 13.8 | 23.4 | 36.9  | 14.0  | 4.8   | .5    |       |       |       | 100.0      | 11.7         |

TOTAL NUMBER OF OBSERVATIONS: 834

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1400-2000

| DIRECTION<br>DEGREES | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|----------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                      | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                    | .6                  | 1.9  | 2.9  | 1.3   | .2    | .4    |       |       |       |       |            | 7.3          | 8.8  |
| NNC                  | .2                  | 2.7  | 2.0  | 1.9   | .9    |       |       |       |       |       |            | 6.6          | 9.1  |
| NE                   | .5                  | 1.0  | 1.8  | 4.1   | 1.4   | .2    |       |       |       |       |            | 9.0          | 11.7 |
| ENE                  | .5                  | 1.1  | 1.8  | 2.4   | 2.6   | 1.0   |       |       |       |       |            | 9.3          | 13.7 |
| E                    | .6                  | 2.3  | 3.2  | 5.1   | 1.9   | .4    |       |       |       |       |            | 13.5         | 11.2 |
| ESE                  | .4                  | 1.0  | 2.0  | 2.5   | .2    | .2    |       |       |       |       |            | 6.3          | 10.4 |
| SE                   | .5                  | 1.6  | 1.9  | 1.7   | .8    | .4    |       |       |       |       |            | 6.5          | 10.2 |
| SSE                  | .5                  | 1.6  | 1.8  | .4    |       |       |       |       |       |       |            | 4.2          | 6.9  |
| S                    | .0                  | 3.9  | 2.9  | .6    | .4    |       |       |       |       |       |            | 8.6          | 12.3 |
| SSW                  | .1                  | .4   | .8   | 2.5   | .7    | .2    |       |       |       |       |            | 4.8          | 13.8 |
| SW                   | .1                  | .4   | .8   | .2    | .4    | .1    |       |       |       |       |            | 2.0          | 10.8 |
| WSW                  | .8                  | 1.2  | 1.1  |       |       |       |       |       |       |       |            | 3.1          | 9.1  |
| W                    | 1.0                 | 1.2  | 1.8  | 3.0   | .5    | 1.1   | .4    |       |       |       |            | 9.4          | 12.8 |
| WNW                  | .5                  | .6   | .6   | 1.1   |       | .1    |       |       |       |       |            | 2.9          | 9.0  |
| NW                   | .4                  | .7   | .2   | .8    | .1    |       |       |       |       |       |            | 2.1          | 8.6  |
| NNW                  | .2                  | 1.6  | .2   | .1    | .7    |       |       |       |       |       |            | 2.7          | 8.8  |
| VARIABLE             |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                 |                     |      |      |       |       |       |       |       |       |       |            | 2.2          |      |
| TOTALS               | 6.0                 | 18.0 | 27.1 | 30.9  | 10.2  | 4.9   | .5    |       |       |       |            | 100.0        | 10.6 |

TOTAL NUMBER OF OBSERVATIONS: 837

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: FEB    HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .5                  | 1.8  | 1.2  | 1.3   | .2    | .2    |       |       |       |       |            | 5.3          | 8.8  |
| NNE                    | .1                  | 1.0  | 1.6  | 1.8   | .5    | .1    |       |       |       |       |            | 5.0          | 10.5 |
| NE                     | .5                  | .7   | 2.4  | 4.0   | .5    | .4    |       |       |       |       |            | 9.4          | 11.2 |
| ENE                    | .6                  | 1.1  | 1.9  | 4.7   | 2.8   | .6    |       |       |       |       |            | 11.3         | 13.2 |
| E                      | .4                  | 1.7  | 5.0  | 6.1   | 1.9   | .2    |       |       |       |       |            | 15.3         | 11.5 |
| ESE                    | .1                  | 1.0  | 1.9  | 1.6   | .4    |       |       |       |       |       |            | 4.9          | 9.6  |
| SE                     | .1                  | 1.2  | 1.0  | 2.2   | .4    | .1    | .2    |       |       |       |            | 5.1          | 11.7 |
| SSE                    | .5                  | 1.0  | 1.1  | 1.2   | .1    |       |       |       |       |       |            | 3.8          | 8.5  |
| S                      | .4                  | 1.8  | 4.6  | 2.8   | .6    | .9    |       |       |       |       |            | 10.1         | 10.2 |
| SSW                    | .4                  | .4   | .7   | 1.9   | 1.3   | .1    |       |       |       |       |            | 4.8          | 13.2 |
| SW                     | .2                  | .2   | .7   | .7    | .6    | .4    | .2    |       |       |       |            | 3.1          | 10.1 |
| WSW                    | .4                  | 1.0  | 1.2  | 1.7   |       |       |       |       |       |       |            | 4.2          | 9.0  |
| W                      | .6                  | 1.2  | 1.4  | 2.6   | .7    | .6    | .9    |       |       |       |            | 7.5          | 12.1 |
| WNW                    | 1.3                 | .7   | .6   | 1.0   | .1    | .1    |       |       |       |       |            | 3.8          | 7.5  |
| NW                     | .5                  | .9   | .1   | .6    |       |       |       |       |       |       |            | 1.6          | 7.5  |
| NNW                    | .4                  | .8   | .6   | .2    | .2    |       |       |       |       |       |            | 2.3          | 8.1  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            | 3.5          | /    |
| TOTALS                 | 6.8                 | 15.8 | 26.0 | 33.5  | 10.3  | 3.2   | .8    |       |       |       |            | 100.0        | 10.5 |

TOTAL NUMBER OF OBSERVATIONS: 835

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .6                  | 1.7  | 2.0  | 1.9   | .8    | .1    |       |       |       |       |            | 6.5          | 8.9  |
| NNE                    | .2                  | 1.0  | 2.0  | 2.2   | .4    | .1    |       |       |       |       |            | 6.0          | 10.4 |
| NE                     | .4                  | .6   | 2.0  | 3.5   | 1.1   | .6    |       |       |       |       |            | 8.1          | 12.3 |
| FNE                    | .5                  | .8   | 2.3  | 3.3   | 2.1   | .9    | .1    |       |       |       |            | 10.4         | 17.4 |
| E                      | .8                  | 1.8  | 4.4  | 6.1   | 1.9   | .4    | .0    |       |       |       |            | 15.3         | 11.4 |
| FSE                    | .5                  | .6   | 1.5  | 2.5   | .3    | .1    |       |       |       |       |            | 5.4          | 10.6 |
| SE                     | .4                  | 1.2  | .9   | 2.1   | .3    | .1    | .0    |       |       |       |            | 5.1          | 10.2 |
| SSE                    | .5                  | .9   | 1.2  | 1.1   | .1    | .0    |       |       |       |       |            | 3.8          | 8.4  |
| S                      | .6                  | 1.2  | 3.1  | 2.0   | 1.0   | .2    |       |       |       |       |            | 9.0          | 10.8 |
| SSW                    | .3                  | .3   | .8   | 2.1   | .8    | .1    |       |       |       |       |            | 4.3          | 12.4 |
| SW                     | .2                  | .2   | .8   | 1.0   | .6    | .1    | .1    |       |       |       |            | 2.9          | 12.7 |
| WSW                    | .2                  | .6   | .8   | 1.5   | .1    |       |       |       |       |       |            | 3.2          | 9.9  |
| W                      | .7                  | .7   | 1.3  | 2.6   | .9    | .6    | .2    |       |       |       |            | 6.9          | 12.5 |
| WNW                    | .8                  | .7   | .9   | 1.1   | .4    | .4    | .0    |       |       |       |            | 4.4          | 10.4 |
| NW                     | .8                  | .6   | .5   | .2    | .2    | .1    |       |       |       |       |            | 2.6          | 8.3  |
| NNW                    | .9                  | 1.1  | .9   | .9    | .1    | .2    |       |       |       |       |            | 3.2          | 8.9  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            | 2.8          | 11.1 |
| TOTALS                 | 7.7                 | 13.9 | 25.5 | 35.0  | 10.8  | 3.9   | .4    |       |       |       |            | 100.0        | 10.8 |

TOTAL NUMBER OF OBSERVATIONS: 6698

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOCCONIE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: MAR HOURS(LST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .8                  | 1.7  | .9   | 1.4   | .1    |       |       |       |       |       |            | 4.3          | 8.2  |
| NNE                    | .4                  | .7   | .5   | 1.2   | .3    |       |       |       |       |       |            | 2.8          | 9.9  |
| NE                     | .2                  | .5   | 1.6  | 1.0   | .5    |       |       |       |       |       |            | 3.9          | 10.5 |
| ENE                    | .3                  | .1   | .9   | 1.7   | .4    |       |       |       |       |       |            | 3.5          | 11.2 |
| E                      | .7                  | .3   | 1.3  | 1.2   |       |       |       |       |       |       |            | 3.5          | 8.6  |
| ESE                    |                     | .7   | .5   | 1.2   |       |       |       |       |       |       |            | 2.1          | 10.8 |
| SE                     | .5                  | .8   | 1.2  | 1.7   | .7    | .1    |       |       |       |       |            | 5.0          | 10.4 |
| SSE                    | .5                  | 1.1  | 2.2  | 1.5   |       |       |       |       |       |       |            | 5.3          | 8.1  |
| S                      | 1.1                 | 1.2  | 3.9  | 2.7   | .8    | 1.1   | .2    |       |       |       |            | 11.0         | 11.2 |
| SSW                    | .8                  | 1.7  | 1.7  | 4.4   | 1.8   | 1.0   | .1    |       |       |       |            | 11.7         | 13.0 |
| SW                     | .7                  | .7   | 2.0  | 2.7   | .5    | .4    | .2    |       |       |       |            | 6.6          | 11.7 |
| WSW                    | 1.1                 | 1.2  | 1.2  | 4.1   | .8    | .2    |       |       |       |       |            | 8.6          | 10.4 |
| W                      | 1.2                 | 1.4  | 2.2  | 2.9   | 1.5   | .2    |       |       |       |       |            | 9.4          | 10.7 |
| WNW                    | 2.5                 | 2.7  | 3.1  | 1.9   | .7    |       |       |       |       |       |            | 10.8         | 7.4  |
| NW                     | 1.4                 | 1.7  | .4   | .7    |       | .5    |       |       |       |       |            | 4.8          | 7.5  |
| NNW                    | .5                  | .9   | .3   | 1.1   |       |       |       |       |       |       |            | 2.7          | 7.6  |
| <hr/>                  |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 4.6          | /    |
| TOTALS                 | 12.7                | 15.7 | 24.0 | 30.8  | 8.1   | 3.6   | .5    |       |       |       |            | 100.0        | 9.6  |

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 7A-8T  
MONTH: MAR HOURS(S) LEFT: 0300-0500

| DIRECTION<br>DEGREES | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|----------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                      | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                    | 1.0                 | 1.2  | 1.2  | 1.0   |       |       |       |       |       |       | 5.0        | 7.3          |
| NNE                  | .2                  | 1.2  | .5   | 1.3   | .3    |       |       |       |       |       | 3.6        | 9.7          |
| NE                   | .2                  | .3   | .7   | 1.1   | .2    | .1    |       |       |       |       | 2.6        | 11.0         |
| ENE                  | .2                  | .3   | 1.1  | 1.3   | .2    | .1    |       |       |       |       | 3.5        | 11.8         |
| E                    | .4                  | .4   | .6   | .4    |       |       |       |       |       |       | 2.5        | 6.3          |
| ESE                  | .7                  | .7   | 1.0  | 1.5   | .1    | .1    |       |       |       |       | 3.6        | 10.2         |
| SE                   | .7                  | .7   | 1.5  | 1.5   | .2    | .1    |       |       |       |       | 4.8        | 9.6          |
| SSE                  | .9                  | .9   | 2.3  | 1.7   |       | .2    |       |       |       |       | 4.7        | 9.3          |
| S                    | .9                  | 1.2  | 4.8  | 4.2   | .7    | .7    | .3    |       |       |       | 12.1       | 11.2         |
| SSW                  | .5                  | .9   | 2.2  | 3.4   | 1.7   | 1.3   |       |       |       |       | 10.9       | 13.3         |
| SW                   | .7                  | .7   | 1.6  | 1.3   | 1.1   | .7    |       |       |       |       | 6.2        | 12.5         |
| WSW                  | .9                  | 1.9  | 1.8  | 3.6   | .3    | .2    |       |       |       |       | 8.2        | 10.0         |
| W                    | .9                  | 1.7  | 2.9  | 5.1   | 2.0   | .2    |       |       |       |       | 11.6       | 11.0         |
| WNW                  | 2.4                 | 2.5  | 1.6  | 1.2   | .3    | .1    |       |       |       |       | 7.9        | 6.9          |
| NW                   | 1.5                 | 1.8  | 1.1  | .2    |       |       |       |       |       |       | 5.7        | 7.4          |
| NNW                  | 1.2                 | .7   | .8   | 1.0   | .3    |       |       |       |       |       | 3.8        | 8.5          |
| VARIABLE             |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                 | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 4.7        | 11.1         |
| TOTALS               | 12.2                | 15.5 | 25.8 | 31.1  | 6.2   | 4.6   | .3    |       |       |       | 100.0      | 9.7          |

TOTAL NUMBER OF OBSERVATIONS: 923

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | PERIOD OF RECORD:<br>MONTH: MAR HOURS(LST): 0600-0800 |           |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|---|-----------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 | TOTAL %   | MEAN WIND |
| N                      | .6                  | 1.6  | 1.1  | 1.2   | .1    |       |       |       |       |       |       | 4.7   | 7.8       |
| NNE                    | .3                  | .7   | .6   | 1.9   | .3    |       |       |       |       |       |       | 3.7   | 10.6      |
| NE                     | .3                  | .2   | .5   | 1.1   | .2    | .2    |       |       |       |       |       | 3.2   | 9.7       |
| ENE                    | .1                  | .3   | .5   | 1.7   |       |       |       |       |       |       |       | 2.9   | 11.8      |
| E                      | .6                  | 1.2  | 1.6  | 1.8   | .1    |       |       |       |       |       |       | 5.0   | 8.5       |
| ESE                    | .1                  | .6   | .8   | 2.1   | .4    | .1    |       |       |       |       |       | 4.1   | 11.6      |
| SE                     | .1                  | .7   | 2.1  | 1.2   | .2    |       |       |       |       |       |       | 4.3   | 9.2       |
| SSE                    | .1                  | .8   | 1.2  | 1.9   | .5    |       |       |       |       |       |       | 4.1   | 10.7      |
| S                      | .6                  | 1.7  | 3.8  | 4.3   | 1.9   | .9    | .1    | .1    |       |       |       | 12.3  | 11.4      |
| SSW                    | .3                  | .7   | .9   | 4.5   | 1.8   | 1.1   | .1    | .1    |       |       |       | 9.7   | 15.0      |
| SW                     | .5                  | .7   | 1.1  | 3.1   | 1.1   | .9    | .1    |       |       |       |       | 6.9   | 12.6      |
| WSW                    | .5                  | .7   | 1.4  | 3.5   | .3    | .3    |       |       |       |       |       | 6.9   | 10.8      |
| W                      | 1.0                 | 2.1  | 3.0  | 4.4   | 1.5   | .6    |       |       |       |       |       | 12.7  | 11.0      |
| WNW                    | 2.1                 | 1.9  | .8   | .6    | 1.0   | .4    |       |       |       |       |       | 6.5   | 8.5       |
| NNW                    | 1.7                 | 1.1  | 1.6  | 1.7   | .1    |       |       |       |       |       |       | 6.1   | 7.3       |
| NNW                    | 1.1                 | 1.0  | .6   | .9    | .9    | .3    |       |       |       |       |       | 4.1   | 9.1       |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |   |           |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 3.5   | 11.1      |
| TOTALS                 | 10.7                | 15.6 | 21.5 | 36.7  | 9.2   | 4.2   | .3    | .1    | .1    |       |       | 100.0   | 10.3      |

TOTAL NUMBER OF OBSERVATIONS: 928

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
USAFCETAC FROM HOURLY OBSERVATIONS  
AIR WEATHER SERVICE/MAC

STATION NUMBER: 037469 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 7A-87  
MONTH: MAR HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .2                  | 1.1  | 1.0  | 1.5   | .7    |       |       |       |       |       |       | 4.4        | 10.1         |
| NNE                    | .3                  | .7   | 1.4  | 1.3   | .4    |       |       |       |       |       |       | 3.8        | 10.2         |
| NE                     |                     | .2   | .5   | 1.1   | .4    | .4    |       |       |       |       |       | 2.9        | 14.0         |
| ENE                    | .2                  | .7   | 1.8  | 2.0   | .4    | .1    | .1    |       |       |       |       | 5.2        | 10.9         |
| E                      | .3                  | .7   | 1.0  | 1.7   | .7    | .1    |       |       |       |       |       | 4.0        | 11.4         |
| ESE                    | .3                  | .7   | .9   | .7    | .2    | .8    |       |       |       |       |       | 2.7        | 10.7         |
| SE                     | .3                  | .9   | .8   | 1.3   | 1.1   |       |       |       |       |       |       | 4.8        | 11.7         |
| SSE                    | .2                  | 1.3  | 2.1  | 1.1   | .5    |       |       |       |       |       |       | 5.2        | 9.5          |
| S                      | .2                  | 1.0  | 1.4  | 4.6   | 2.2   | .5    | .1    |       |       |       |       | 10.0       | 13.6         |
| SSW                    | .4                  | .9   | .9   | 2.8   | 2.0   | 1.0   | .4    |       |       |       |       | 8.5        | 15.3         |
| SW                     | .1                  | .3   | .9   | 2.7   | 2.4   | 1.0   | .1    | .1    | .1    |       |       | 7.7        | 16.4         |
| WSW                    | .2                  | .7   | 1.3  | 3.1   | .8    | .1    | .1    |       |       |       |       | 6.3        | 12.1         |
| W                      | 1.1                 | .2   | 2.0  | 5.0   | 2.2   | 1.4   | .2    |       |       |       |       | 12.7       | 13.6         |
| NNW                    | 1.4                 | .6   | 1.5  | 2.9   | 1.5   | 1.6   | .4    |       |       |       |       | 10.0       | 13.7         |
| NW                     | 1.2                 | .7   | .7   | 1.8   | .7    | .3    |       |       |       |       |       | 5.3        | 10.6         |
| NNW                    | .4                  | .5   | 1.1  | 2.6   | .3    | .3    |       |       |       |       |       | 5.3        | 11.7         |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 1.2        | 1.1          |
| TOTALS                 | 7.0                 | 11.1 | 18.7 | 36.6  | 16.8  | 7.0   | 1.5   | .1    | .2    |       |       | 100.0      | 12.6         |

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |     |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .1                  | 1.1 | .1   | 3.2   | .8    |       |       |       |       |       | 5.2        | 11.7         |
| NNE                    | .2                  | .4  | .4   | 2.6   | .4    |       |       |       |       |       | 3.5        | 11.6         |
| NE                     |                     | .4  | 1.6  | 1.9   | .3    |       |       |       |       |       | 4.2        | 10.8         |
| ENE                    | .5                  | .2  | .2   | 1.5   | .1    | .3    |       |       |       |       | 2.9        | 11.9         |
| E                      | .2                  | .7  | .7   | 2.0   | .5    |       |       |       |       |       | 4.0        | 11.5         |
| ESE                    | .2                  | .1  | .4   | .2    | .3    | .2    |       |       |       |       | 1.5        | 12.9         |
| SE                     |                     | .1  | .9   | 1.5   | 1.0   | .3    |       |       |       |       | 3.8        | 14.5         |
| SSE                    | .4                  | .5  | .9   | 1.7   | .2    |       |       |       |       |       | 3.4        | 9.8          |
| S                      | .3                  | .2  | 2.6  | 4.8   | 1.5   | 1.3   |       |       |       |       | 10.8       | 13.7         |
| SSW                    | .2                  | .7  | 1.3  | 4.0   | 3.1   | 1.1   | .4    |       |       |       | 10.8       | 15.4         |
| SW                     |                     | .1  | .4   | 1.7   | 3.5   | 1.8   | .4    |       |       |       | 8.0        | 18.2         |
| WSW                    | .2                  | .0  | 1.5  | 3.0   | 1.3   | .1    | .2    |       |       |       | 8.2        | 12.6         |
| W                      | .2                  | 1.0 | 1.6  | 4.0   | 4.1   | 1.9   | .3    |       |       |       | 13.4       | 15.3         |
| WNW                    | .4                  | .9  | 1.2  | 3.7   | 1.5   | 1.9   | .2    |       |       |       | 9.8        | 14.9         |
| NW                     | .1                  | .4  | .6   | 2.0   | .4    | .3    |       | .1    |       |       | 4.1        | 13.1         |
| NNW                    |                     | 1.0 | 1.3  | 2.7   | .7    |       |       |       |       |       | 5.7        | 11.3         |
| VARIABLE               |                     |     |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /   | /    | /     | /     | /     | /     | /     | /     | /     | .7         |              |
| TOTALS                 | 3.5                 | 9.2 | 16.0 | 40.5  | 19.8  | 8.8   | 1.6   | .1    |       |       | 100.0      | 13.7         |

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: MAR      HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |     |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .1                  | .1  | 1.5  | 2.0   | .7    |       |       |       |       |       |            | 5.4          | 10.8 |
| NNC                    | .2                  | .3  | 1.2  | 1.7   | 1.2   |       |       |       |       |       |            | 9.7          | 12.1 |
| NE                     |                     | .2  | 1.6  | 2.0   | .2    |       |       |       |       |       |            | 4.0          | 10.7 |
| ENE                    | .2                  | .2  | .3   | 1.0   | .5    | .1    |       |       |       |       |            | 3.5          | 13.6 |
| E                      | .2                  | .2  | .5   | 1.2   | .2    |       |       |       |       |       |            | 2.8          | 10.7 |
| ESE                    | .2                  | .3  | .3   | .3    | .4    | .3    |       |       |       |       |            | 2.0          | 12.7 |
| SE                     | .1                  | .2  | .5   | 1.1   | 1.0   |       |       |       |       |       |            | 2.9          | 12.9 |
| SSE                    | .3                  |     | 1.0  | 1.5   | .5    |       |       |       |       |       |            | 3.4          | 11.5 |
| S                      | .4                  | .7  | 2.9  | 5.7   | .8    | .3    |       |       |       |       |            | 10.8         | 12.0 |
| SSW                    | .2                  | .1  | 1.5  | 4.4   | 2.8   | 2.0   | .2    |       |       |       |            | 11.3         | 16.1 |
| SW                     |                     | .1  | .9   | 2.0   | 2.3   | 1.5   | .2    |       |       |       |            | 6.9          | 17.2 |
| WSW                    | .4                  | .5  | .7   | 2.5   | .3    | .3    | .2    |       |       |       |            | 5.0          | 12.7 |
| W                      | .4                  | 1.3 | 2.4  | 7.0   | 4.0   | 1.7   |       |       |       |       |            | 16.9         | 14.3 |
| WNW                    | .2                  | .5  | 2.4  | 2.4   | 2.2   | 1.6   | .1    |       |       |       |            | 9.4          | 14.6 |
| NW                     | .5                  | .7  | .9   | 1.9   | .3    | .1    |       |       |       |       |            | 4.3          | 10.7 |
| NNW                    | .4                  | .5  | 1.7  | 2.4   | .2    | .3    |       |       |       |       |            | 5.9          | 10.4 |
| VARIABLE               |                     |     |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /   | /    | /     | /     | /     | /     | /     | /     | /     |            | .8           | /    |
| TOTALS                 | 4.0                 | 7.4 | 20.4 | 40.0  | 17.7  | 8.4   | 1.0   |       |       |       |            | 100.0        | 13.2 |

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .3                  | 3.1  | 1.3  | .5    | .1    |       |       |       |       |       | 5.4        | 6.8          |
| NNE                    | .2                  | 1.9  | .8   | 2.1   | .8    |       |       |       |       |       | 5.6        | 10.4         |
| NE                     | .2                  | .4   | 1.3  | .7    | .1    | .1    |       |       |       |       | 2.8        | 9.3          |
| ENE                    | .2                  | .7   | .4   | 1.8   | .3    | .4    |       |       |       |       | 3.5        | 13.0         |
| E                      |                     | .7   | .4   | 1.1   | .1    | .2    |       |       |       |       | 2.5        | 11.4         |
| ESE                    | .3                  | .7   | .4   | .4    | .4    | .1    |       |       |       |       | 2.4        | 9.7          |
| SE                     | .2                  | .7   | 1.7  | .8    | .4    | .1    |       |       |       |       | 3.9        | 9.9          |
| SSE                    | .3                  | 1.0  | 1.4  | 1.1   | .4    |       |       |       |       |       | 4.2        | 9.4          |
| S                      | .1                  | 2.9  | 3.8  | 2.3   | 1.1   | .3    | .1    |       |       |       | 10.6       | 10.2         |
| SSW                    | .1                  | 1.2  | 3.1  | 3.6   | 1.8   | 2.1   | .1    |       |       |       | 12.1       | 14.1         |
| SW                     | .2                  | .7   | 1.7  | 3.1   | 1.1   | .4    | .1    |       |       |       | 6.9        | 13.0         |
| WSW                    | .1                  | .9   | 1.5  | 2.5   | .4    | .2    |       |       |       |       | 5.5        | 11.3         |
| W                      | 1.2                 | 2.0  | 5.0  | 5.0   | 1.8   | 1.3   |       |       |       |       | 16.3       | 11.4         |
| NNW                    | .3                  | 2.0  | 1.5  | 2.1   | 1.6   | .7    |       |       |       |       | 8.1        | 11.9         |
| NW                     | .4                  | 1.1  | .5   | 1.1   | .2    |       |       |       |       |       | 3.4        | 8.6          |
| NNW                    | .2                  | 1.6  | 1.8  | .7    | .1    | .1    |       |       |       |       | 4.6        | 8.3          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 2.1        | /            |
| TOTALS                 | 9.6                 | 20.3 | 26.9 | 28.8  | 11.0  | 6.1   | .3    |       |       |       | 100.0      | 10.8         |

TOTAL NUMBER OF OBSERVATIONS: 921

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .1                  | 2.7  | .8   | .5    |       |       |       |       |       |       | 3.6        | 6.8          |
| NNE                    | .5                  | 1.4  | .7   | 1.7   | .4    |       |       |       |       |       | 4.8        | 9.4          |
| NE                     | .1                  | .7   | .8   | 1.4   | .9    | .1    |       |       |       |       | 3.5        | 11.3         |
| ENE                    | .3                  | .2   | 1.0  | 2.2   | .3    |       |       |       |       |       | 3.8        | 11.5         |
| E                      | .9                  | .9   | .8   | 1.3   | .1    |       |       |       |       |       | 4.1        | 8.2          |
| ESE                    | .4                  | .8   | .8   | .0    | .3    | .1    |       |       |       |       | 3.3        | 9.5          |
| SE                     | .5                  | .8   | .9   | 1.1   | .1    | .3    |       |       |       |       | 3.7        | 9.9          |
| SSE                    | .7                  | 1.4  | 1.8  | 1.7   | .1    | .2    | .1    |       |       |       | 6.1        | 9.4          |
| S                      | 1.4                 | 1.7  | 3.7  | 2.0   | .8    | 1.0   |       |       |       |       | 10.5       | 10.1         |
| SSW                    | .3                  | .5   | 2.3  | 4.0   | 1.1   | 1.0   | .1    | .1    |       |       | 9.4        | 13.6         |
| SW                     | .5                  | .7   | 1.8  | 3.1   | .7    | .8    | .2    |       |       |       | 7.8        | 12.6         |
| WSW                    | .2                  | .9   | 2.1  | 2.0   | .7    | .1    |       |       |       |       | 6.3        | 11.2         |
| W                      | 1.5                 | 2.7  | 3.5  | 4.8   | 1.3   | .1    |       |       |       |       | 13.9       | 9.8          |
| NNW                    | 1.3                 | 2.1  | 2.2  | 2.7   | .5    | .2    |       |       |       |       | 8.9        | 9.2          |
| NW                     | .2                  | 1.2  | .7   | .0    |       | .7    |       |       |       |       | 4.1        | 9.0          |
| NNW                    | .7                  | 1.0  | .8   | .3    | .1    | .2    |       |       |       |       | 3.0        | 7.8          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 3.3        | /            |
| TOTALS                 | 10.4                | 18.9 | 24.3 | 30.9  | 6.9   | 4.8   | .4    | .1    |       |       | 100.0      | 9.9          |

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: MAR HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .4                  | 1.7  | 1.0  | 1.4   | .3    |       |       |       |       |       |            | 4.8          | 8.7  |
| NNE                    | .3                  | .8   | .8   | 1.6   | .5    |       |       |       |       |       |            | 4.1          | 10.5 |
| NE                     | .1                  | .5   | 1.1  | 1.3   | .3    | .1    |       |       |       |       |            | 3.4          | 10.9 |
| ENE                    | .3                  | .2   | .8   | 1.8   | .3    | .2    | .0    |       |       |       |            | 3.6          | 11.9 |
| E                      | .4                  | .7   | .9   | 1.3   | .2    | .0    |       |       |       |       |            | 3.6          | 9.8  |
| ESE                    | .3                  | .5   | .6   | .9    | .3    | .2    |       |       |       |       |            | 2.7          | 10.8 |
| SE                     | .3                  | .6   | 1.2  | 1.4   | .6    | .1    |       |       |       |       |            | 4.1          | 10.9 |
| SSE                    | .4                  | .8   | 1.6  | 1.4   | .3    | .1    | .0    |       |       |       |            | 4.5          | 9.6  |
| S                      | .6                  | 1.3  | 3.4  | 3.8   | 1.1   | .7    | .1    | .0    |       |       |            | 11.0         | 11.7 |
| SSW                    | .4                  | .8   | 1.7  | 3.9   | 2.0   | 1.3   | .2    | .0    | .0    |       |            | 10.3         | 14.5 |
| SW                     | .3                  | .4   | 1.3  | 2.5   | 1.6   | .8    | .2    | .0    | .0    |       |            | 7.1          | 14.4 |
| WSW                    | .5                  | .9   | 1.4  | 3.2   | .6    | .2    | .1    |       |       |       |            | 6.9          | 11.3 |
| W                      | .9                  | 1.6  | 2.8  | 4.8   | 2.2   | .9    | .1    |       |       |       |            | 13.4         | 12.2 |
| WNW                    | 1.4                 | 1.6  | 1.8  | 2.2   | 1.2   | .8    | .1    |       |       |       |            | 8.9          | 11.1 |
| NW                     | 1.0                 | 1.1  | .8   | 1.3   | .2    | .3    | .0    |       |       |       |            | 4.7          | 9.1  |
| NNW                    | .6                  | .9   | 1.0  | 1.4   | .2    | .2    |       |       |       |       |            | 4.4          | 9.7  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            | 2.5          | /    |
| TOTALS                 | 8.1                 | 14.2 | 22.2 | 34.2  | 11.9  | 6.0   | .8    | .1    | .0    |       |            | 100.0        | 11.2 |

TOTAL NUMBER OF OBSERVATIONS: 7378

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: APR      HOURS(LST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | 1.5                 | 2.5  | 2.6  | .9    | .4    |       |       |       |       |       |            | 7.9          | 7.3  |
| NNE                    | 1.5                 | 1.2  | .6   | 2.6   | .4    |       |       |       |       |       |            | 6.3          | 9.2  |
| NE                     | .7                  | 1.1  | 1.5  | 2.9   | .7    |       |       |       |       |       |            | 6.9          | 10.0 |
| ENE                    | .4                  | .4   | 1.5  | 2.5   | 1.0   |       |       |       |       |       |            | 5.6          | 11.6 |
| E                      | 1.1                 | 1.2  | 2.1  | 1.5   | .3    |       |       |       |       |       |            | 6.3          | 7.8  |
| ESE                    | .4                  | .8   | 1.3  | .6    |       |       |       |       |       |       |            | 3.1          | 7.6  |
| SE                     | .9                  | 1.5  | 1.1  |       |       |       |       |       |       |       |            | 3.5          | 8.9  |
| SSE                    | .4                  | 1.1  | 1.5  | .2    | .3    |       |       |       |       |       |            | 3.6          | 8.0  |
| S                      | .4                  | 2.6  | 3.6  | 2.5   | .1    |       |       |       |       |       |            | 9.2          | 8.5  |
| SSW                    | .4                  | .3   | 1.5  | 1.8   | .3    | .2    |       |       |       |       |            | 4.6          | 10.9 |
| SW                     | .7                  | .2   | .7   | 1.1   | .7    |       |       |       |       |       |            | 3.4          | 10.7 |
| WSW                    | .6                  | .7   | .4   | 1.1   | .1    | .1    |       |       |       |       |            | 3.0          | 9.1  |
| W                      | 1.8                 | 2.6  | 2.8  | 2.0   | .6    | .3    |       |       |       |       |            | 10.1         | 8.4  |
| NNW                    | 2.6                 | 3.9  | 2.1  | .9    | .2    |       |       |       |       |       |            | 9.8          | 5.9  |
| NW                     | 1.3                 | 1.7  | .9   | .2    |       |       |       |       |       |       |            | 4.2          | 5.4  |
| NNW                    | 1.6                 | 2.1  | 1.6  | .8    | .1    |       |       |       |       |       |            | 6.2          | 6.4  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 6.2          | /    |
| TOTALS                 | 15.5                | 23.5 | 26.1 | 22.7  | 5.4   | .7    |       |       |       |       |            | 100.0        | 7.8  |

TOTAL NUMBER OF OBSERVATIONS: 890

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .7                  | 4.0  | 2.7  | 1.0   | .8    |       |       |       |       |       |            | 9.2          | 8.0  |
| NNE                    | .2                  | .6   | 1.5  | 2.4   | .3    | .1    |       |       |       |       |            | 5.0          | 10.8 |
| NE                     | .8                  | .7   | 1.9  | 1.6   | .2    |       |       |       |       |       |            | 5.2          | 8.9  |
| ENE                    | .9                  | .8   | 1.1  | 3.1   | .6    |       |       |       |       |       |            | 6.5          | 10.6 |
| E                      | .7                  | 1.0  | 3.6  | 1.5   | .2    |       |       |       |       |       |            | 7.8          | 8.4  |
| ESE                    | .4                  | .8   | 1.0  | 1.0   |       |       |       |       |       |       |            | 3.2          | 8.0  |
| SE                     | .8                  | .6   | 1.3  | 1.0   |       |       |       |       |       |       |            | 3.7          | 7.5  |
| SSE                    | .1                  | 1.1  | 1.2  | 1.0   | .2    |       |       |       |       |       |            | 3.7          | 8.8  |
| S                      | .9                  | 1.9  | 2.0  | 1.8   | .3    |       |       |       |       |       |            | 6.9          | 8.2  |
| SSW                    | .4                  | .4   | 1.5  | 1.0   | 1.0   |       |       |       |       |       |            | 4.4          | 11.0 |
| SW                     | .8                  | 1.1  | 1.1  | .3    | .6    |       |       |       |       |       |            | 2.8          | 10.3 |
| WSW                    | .8                  | .7   | 1.1  | 1.2   |       |       |       |       |       |       |            | 3.8          | 8.1  |
| W                      | 1.7                 | 2.4  | 2.1  | 2.5   | .1    | .6    |       |       |       |       |            | 9.3          | 8.5  |
| NNW                    | 2.9                 | 2.7  | 2.5  | .9    | .1    |       |       |       |       |       |            | 9.1          | 6.0  |
| NW                     | 1.7                 | 1.2  | 1.5  | .9    |       |       |       |       |       |       |            | 5.9          | 6.1  |
| NNW                    | 2.4                 | 2.7  | 2.6  | 1.2   |       |       |       |       |       |       |            | 8.8          | 6.3  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 4.6          | /    |
| TOTALS                 | 15.3                | 23.2 | 28.7 | 22.4  | 4.5   | .7    |       |       |       |       |            | 100.0        | 7.8  |

TOTAL NUMBER OF OBSERVATIONS: 893

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .6                  | 2.0  | 2.9  | 3.6   | .4    |       |       |       |       |       |       | 9.5        | 9.6          |
| NNE                    | .3                  | 1.1  | 1.5  | 2.7   | .4    | .1    |       |       |       |       |       | 6.1        | 10.7         |
| NE                     | .4                  | .8   | 1.8  | 3.0   | .1    |       |       |       |       |       |       | 6.1        | 9.8          |
| ENE                    | .6                  | .4   | 1.2  | 2.9   | .6    |       |       |       |       |       |       | 5.7        | 11.0         |
| E                      | 1.3                 | 1.2  | 3.3  | 2.3   |       |       |       |       |       |       |       | 8.3        | 8.1          |
| ESE                    | .4                  | .7   | 1.1  | .3    | .1    | .1    |       |       |       |       |       | 3.2        | 8.7          |
| SE                     | .7                  | .4   | 1.0  | 1.6   | .7    |       |       |       |       |       |       | 4.4        | 10.6         |
| SSE                    | .2                  | .6   | 1.6  | 1.0   | .1    | .1    | .1    |       |       |       |       | 3.6        | 9.5          |
| S                      | .2                  | 1.0  | 4.1  | 1.7   | .6    |       |       |       |       |       |       | 7.6        | 9.4          |
| SSW                    | .4                  | .3   | .7   | .9    | .6    | .1    |       |       |       |       |       | 3.0        | 11.1         |
| SW                     | .3                  | .7   | .6   | 1.5   | .6    |       |       |       |       |       |       | 3.2        | 11.1         |
| WSW                    | .3                  | .9   | 1.1  | .9    |       |       |       |       |       |       |       | 3.2        | 8.1          |
| W                      | 2.3                 | 1.3  | 2.2  | 2.7   | .4    |       |       |       |       |       |       | 9.0        | 8.3          |
| WNW                    | 2.9                 | 2.1  | 2.6  | 1.0   |       | .1    |       |       |       |       |       | 8.7        | 6.4          |
| NW                     | 2.1                 | 2.0  | 2.1  | 1.3   | .1    |       |       |       |       |       |       | 7.7        | 6.7          |
| NNW                    | 1.1                 | 2.1  | 2.8  | 1.1   | .4    |       |       |       |       |       |       | 7.6        | 7.9          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 3.0        | /            |
| TOTALS                 | 14.4                | 17.4 | 30.6 | 28.9  | 5.1   | .6    |       |       |       |       |       | 100.0      | 8.6          |

TOTAL NUMBER OF OBSERVATIONS: 896

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSLOMDE DOWN UK

PERIOD OF RECORD: 74-87  
MONTH: APR HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .5                  | 2.2  | 3.6  | 5.0   | .4    | .4    |       |       |       |       | 12.1       | 10.6         |
| NNE                    | .2                  | .2   | 1.7  | 4.7   | .9    | .4    |       |       |       |       | 8.2        | 12.6         |
| NE                     |                     | .6   | 1.3  | 2.0   | .7    |       |       |       |       |       | 4.6        | 11.7         |
| ENE                    | .2                  | .3   | .9   | 4.7   | .8    | .3    |       |       |       |       | 6.8        | 13.1         |
| E                      | .2                  | .7   | 1.9  | 2.9   | .3    |       |       |       |       |       | 6.0        | 10.2         |
| ESE                    | .8                  | .3   | 1.1  | 1.5   | .3    |       |       |       |       |       | 4.0        | 10.1         |
| SE                     | .6                  | .7   | .7   | 2.8   | .4    | .1    |       |       |       |       | 5.3        | 11.4         |
| SSE                    | .3                  | .9   | 1.7  | 1.6   | .4    | .2    |       |       |       |       | 5.1        | 10.4         |
| S                      | .1                  | 1.5  | 2.9  | 2.2   | .9    | .3    |       |       |       |       | 7.9        | 10.9         |
| SSW                    | .3                  | .6   | 1.5  | 2.0   | .9    | .2    |       |       |       |       | 5.5        | 11.7         |
| SW                     | .2                  | .1   | .4   | 1.5   | .3    |       |       |       |       |       | 2.6        | 11.5         |
| WSW                    | .1                  | .8   | 1.7  | 1.7   | .2    |       |       |       |       |       | 4.5        | 10.0         |
| W                      | .4                  | 1.7  | 2.5  | 2.8   | .4    | .4    |       |       |       |       | 7.9        | 10.5         |
| WNW                    | .8                  | .8   | .8   | 2.1   | 1.1   | .3    |       |       |       |       | 5.9        | 11.5         |
| NW                     | .2                  | 1.2  | 2.8  | 2.2   | .1    |       |       |       |       |       | 6.6        | 9.5          |
| NNW                    | .7                  | 1.9  | 1.1  | 2.2   | .3    |       |       |       |       |       | 6.3        | 9.0          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       | .7         | / / / / /    |
| CALM                   | / / / / / / / / / / |      |      |       |       |       |       |       |       |       | 100.0      | 10.9         |
| TOTALS                 | 5.6                 | 14.1 | 26.5 | 41.5  | 8.7   | 2.9   |       |       |       |       |            |              |

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
 MONTH: APR      HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .2                  | 1.2  | 3.0  | 3.2   | .6    | .3    |       |       |       |       |       | 9.6        | 10.8         |
| NNE                    | .2                  | .3   | 1.9  | 5.0   | .7    | .7    |       |       |       |       |       | 8.8        | 12.7         |
| NF                     | .2                  | .6   | 1.1  | 2.5   | .8    |       |       |       |       |       |       | 5.2        | 11.7         |
| ENE                    | .3                  | .5   | .5   | 3.4   | 1.5   | .5    |       |       |       |       |       | 6.5        | 14.0         |
| E                      |                     | .8   | 1.2  | 1.9   | .3    | .1    |       |       |       |       |       | 4.3        | 11.4         |
| ESE                    | .2                  | .1   | .8   | 1.9   | 1.0   | .2    |       |       |       |       |       | 4.2        | 13.2         |
| SE                     | .1                  | .5   | .8   | 2.6   | 1.2   | .2    |       |       |       |       |       | 5.4        | 13.5         |
| SSE                    | .1                  | .5   | .6   | 1.6   | .6    |       |       |       |       |       |       | 3.3        | 11.9         |
| S                      | .9                  | 1.0  | 1.2  | 5.1   | 1.2   | .5    |       |       |       |       |       | 9.9        | 11.9         |
| SSW                    | .1                  | .3   | 1.5  | 2.6   | 1.7   | .7    | .1    |       |       |       |       | 7.0        | 14.5         |
| SW                     | .2                  | .5   | .8   | 2.0   | .5    | .2    |       |       |       |       |       | 4.2        | 12.3         |
| WSW                    | .3                  | .5   | .7   | 2.1   | .2    |       |       |       |       |       |       | 3.8        | 10.5         |
| W                      | .1                  | .8   | 2.7  | 5.0   | .2    | .7    |       |       |       |       |       | 9.5        | 11.9         |
| NNW                    | .1                  | .9   | 1.0  | 2.7   | 1.0   | .2    |       |       |       |       |       | 6.0        | 12.5         |
| NW                     | .2                  | .6   | 1.1  | 2.5   | .1    |       |       |       |       |       |       | 4.5        | 10.8         |
| NNW                    | .5                  | 1.2  | 2.7  | 3.6   | .1    |       |       |       |       |       |       | 8.1        | 10.1         |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | .9         | /            |
| TOTALS                 | 3.9                 | 10.1 | 21.6 | 47.3  | 11.7  | 4.3   | .1    |       |       |       |       | 100.0      | 12.0         |

TOTAL NUMBER OF OBSERVATIONS: 888

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
USAFCETAC FROM HOURLY OBSERVATIONS  
AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .1                  | 1.2  | 3.1  | 4.4   | .7    | .1    |       |       |       |       |       | 9.6        | 11.0         |
| NNE                    | .3                  | 1.7  | 2.9  | 5.3   | .7    | .6    |       |       |       |       |       | 11.4       | 11.1         |
| NE                     | .1                  | .4   | 1.6  | 2.0   | 1.2   | .2    |       |       |       |       |       | 5.6        | 12.4         |
| ENE                    | .1                  | .4   | .6   | 2.5   | 1.2   | .3    |       |       |       |       |       | 5.2        | 14.1         |
| E                      | .2                  | .7   | .3   | 1.6   | .3    |       |       |       |       |       |       | 2.7        | 12.1         |
| ESE                    | .4                  | .3   | .4   | 1.9   | .8    |       |       |       |       |       |       | 3.8        | 11.7         |
| SE                     | .2                  | .3   | 1.2  | 3.9   | .8    |       |       |       |       |       |       | 6.5        | 12.1         |
| SSE                    | .2                  | .3   | 1.0  | 1.7   | .7    | .     |       |       |       |       |       | 4.1        | 11.8         |
| S                      | .9                  | .9   | 1.9  | 3.2   | .6    | .2    |       |       |       |       |       | 7.3        | 11.0         |
| SSW                    | .1                  | .7   | 1.1  | 2.6   | 1.8   | .8    | .2    |       |       |       |       | 7.3        | 14.5         |
| SW                     | .2                  | .9   | 1.0  | 2.6   | 1.2   | .6    |       |       |       |       |       | 6.5        | 13.4         |
| WSW                    | .4                  | .1   | 1.0  | .2    | .4    |       |       |       |       |       |       | 2.9        | 10.4         |
| W                      | .2                  | 1.0  | 1.8  | 6.7   | .9    | .2    | .1    |       |       |       |       | 10.3       | 12.3         |
| NNW                    | .1                  | 1.2  | 1.5  | 3.2   | .6    | .1    | .1    |       |       |       |       | 6.8        | 11.2         |
| NW                     | .1                  | .8   | 1.0  | 1.7   | .1    | .1    |       |       |       |       |       | 3.8        | 10.5         |
| NNW                    | .6                  | .7   | 1.2  | 3.2   | .2    |       |       |       |       |       |       | 5.9        | 10.6         |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | .2         | /            |
| TOTALS                 | 4.5                 | 10.9 | 21.7 | 46.9  | 12.2  | 3.2   | .9    |       |       |       |       | 100.0      | 11.9         |

TOTAL NUMBER OF OBSERVATIONS: 893

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS\*

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 7P-87  
MONTH: APR HOURS(LST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | MEAN<br>WIND<br>% |        |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|--------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |                   |        |
| N                      | .7                  | 3.7  | 3.0  | 3.7   | .1    |       |       |       |       |       |       | 10.7              | 8.5    |
| NNE                    | .2                  | 2.2  | 3.8  | 2.6   | .6    | .4    |       |       |       |       |       | 9.9               | 10.3   |
| NE                     |                     | 1.1  | 2.1  | 1.7   | .8    |       |       |       |       |       |       | 5.7               | 10.5   |
| ENE                    | .2                  | .7   | .4   | 2.0   | .9    | .2    |       |       |       |       |       | 4.5               | 13.7   |
| E                      | .7                  | .7   | 1.8  | 1.3   | .2    |       |       |       |       |       |       | 4.7               | 8.8    |
| ESE                    | .3                  | .4   | 2.9  | .9    | .1    |       |       |       |       |       |       | 4.7               | 9.2    |
| SE                     | .2                  | .7   | 1.8  | 1.2   | .3    |       |       |       |       |       |       | 4.3               | 10.1   |
| SSE                    | .6                  | 1.1  | 1.1  | 1.2   | .3    |       |       |       |       |       |       | 4.4               | 8.7    |
| S                      | .9                  | 1.0  | 3.7  | 1.7   | .9    | .2    |       |       |       |       |       | 9.2               | 9.4    |
| SSW                    | .6                  | .7   | 2.0  | 2.6   | .9    | .6    |       |       |       |       |       | 7.0               | 12.3   |
| SW                     |                     | .6   | 1.6  | 1.1   | 1.0   | .2    |       |       |       |       |       | 4.5               | 12.3   |
| WSW                    |                     | 1.1  | .8   | 1.1   | .1    | .1    |       |       |       |       |       | 3.3               | 9.6    |
| W                      | .3                  | 1.3  | 3.7  | 4.5   | .7    | .2    |       |       |       |       |       | 10.9              | 10.5   |
| WNW                    | .4                  | 2.1  | 2.8  | 1.9   | .1    | .1    |       |       |       |       |       | 7.5               | 8.7    |
| NW                     | .3                  | .4   | .8   | .9    | .3    |       |       |       |       |       |       | 2.8               | 9.9    |
| NNW                    | .2                  | 1.7  | 1.1  | 1.1   | .1    | .1    |       |       |       |       |       | 4.4               | 8.8    |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |                   |        |
| CALM                   | //////              |      |      |       |       |       |       |       |       |       |       | 1.8               | ////// |
| TOTALS                 | 5.7                 | 19.6 | 33.5 | 29.6  | 7.5   | 2.2   |       |       |       |       |       | 100.0             | 9.8    |

TOTAL NUMBER OF OBSERVATIONS: 892

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORDS: 78-87  
 MONTH: APR      HOURS(LST): 2100-2300

| DIRECTION<br>FOR GREATEST<br>FREQUENCY | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>%<br>WIND |
|--|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|--------------------|
|  | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |                    |
| N                                      | 1.2                 | 3.1  | 1.8  | 1.1   | .7    | .1    |       |       |       |       | 7.7 7.5            |
| NNE                                    | .7                  | 1.1  | 1.7  | 2.6   | .7    | .1    |       |       |       |       | 6.5 10.8           |
| NE                                     | .8                  | .7   | 2.0  | 2.0   | .5    |       |       |       |       |       | 6.0 9.8            |
| ENE                                    | .5                  | .6   | 1.1  | 2.2   | 1.0   | .1    |       |       |       |       | 5.3 11.8           |
| E                                      | .8                  | 1.4  | 3.0  | 2.8   | .5    |       |       |       |       |       | 8.8 9.2            |
| ESE                                    | .3                  | 1.2  | 1.8  | .7    | .1    |       |       |       |       |       | 4.2 7.9            |
| SE                                     | .2                  | 1.1  | 1.4  | .8    |       |       |       |       |       |       | 3.6 8.0            |
| SSE                                    | .5                  | .6   | 1.5  | .7    | .2    |       |       |       |       |       | 2.9 7.7            |
| S                                      | .6                  | 2.4  | 3.6  | 1.1   | .2    | .3    |       |       |       |       | 8.1 8.5            |
| SSW                                    | .7                  | .9   | 3.1  | 1.6   | .8    |       |       |       |       |       | 7.0 9.8            |
| SW                                     | .6                  | .5   | 1.2  | .8    | .7    | .1    |       |       |       |       | 3.8 10.4           |
| WSW                                    | .5                  | .9   | 1.4  | .9    | .2    |       |       |       |       |       | 3.8 8.7            |
| W                                      | 1.5                 | 2.0  | 4.0  | 3.1   | .1    | .5    |       |       |       |       | 11.3 8.9           |
| UNR                                    | 2.0                 | 3.7  | 1.9  | .6    |       |       |       |       |       |       | 7.7 5.7            |
| NNW                                    | 1.4                 | 2.1  | 1.1  | .7    |       |       |       |       |       |       | 8.9 5.1            |
| NNW                                    | 1.4                 | 1.2  | 1.0  | 1.4   | .1    |       |       |       |       |       | 5.1 7.3            |
| VARIABLE                               |                     |      |      |       |       |       |       |       |       |       |                    |
| CALM                                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 3.5 / / / /        |
| TOTALS                                 | 13.0                | 23.1 | 31.8 | 27.0  | 5.4   | 1.2   |       |       |       |       | 100.0 8.3          |

TOTAL NUMBER OF OBSERVATIONS: 885

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS**

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 7A-8T  
MONTH: APR HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .7                  | 2.5  | 2.8  | 2.9   | .5    | .1    |       |       |       |       | 9.4        | 9.3          |
| NNE                    | .4                  | 1.1  | 1.9  | 3.4   | .6    | .3    |       |       |       |       | 7.8        | 11.1         |
| NE                     | .4                  | .7   | 1.7  | 2.7   | .6    | .0    |       |       |       |       | 5.7        | 10.6         |
| ENE                    | .4                  | .5   | .9   | 2.2   | .9    | .2    |       |       |       |       | 5.8        | 12.4         |
| E                      | .6                  | 1.0  | 2.2  | 2.1   | .3    | .0    |       |       |       |       | 6.1        | 9.1          |
| ESF                    | .4                  | .6   | 1.3  | 1.1   | .3    | .0    |       |       |       |       | 3.8        | 9.6          |
| SE                     | .4                  | .6   | 1.2  | 1.7   | .4    | .0    |       |       |       |       | 4.6        | 10.6         |
| SSE                    | .3                  | .9   | 1.3  | 1.1   | .4    | .0    |       |       |       |       | 3.8        | 9.7          |
| S                      | .6                  | 1.6  | 2.9  | 2.4   | .6    | .2    |       |       |       |       | 8.3        | 9.8          |
| SSW                    | .4                  | .5   | 1.6  | 1.0   | 1.0   | .3    | .0    |       |       |       | 5.7        | 12.2         |
| SW                     | .3                  | .5   | .9   | 1.4   | .7    | .1    |       |       |       |       | 3.9        | 11.7         |
| WSW                    | .4                  | .7   | 1.0  | 1.2   | .2    | .0    |       |       |       |       | 3.5        | 9.3          |
| W                      | 1.1                 | 1.6  | 2.7  | 3.6   | .4    | .4    | .0    |       |       |       | 9.8        | 9.9          |
| WNW                    | 1.5                 | 2.1  | 1.9  | 1.7   | .4    | .1    | .0    |       |       |       | 7.7        | 8.1          |
| NN                     | .9                  | 1.3  | 1.4  | 1.2   | .1    | .0    |       |       |       |       | 5.0        | 7.8          |
| NNW                    | 1.7                 | 1.7  | 1.8  | 1.9   | .2    | .0    |       |       |       |       | 6.5        | 8.2          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 2.6        | /            |
| TOTALS                 | 9.7                 | 17.9 | 27.6 | 32.7  | 7.6   | 2.0   | .1    |       |       |       | 100.0      | 9.6          |

TOTAL NUMBER OF OBSERVATIONS: 7131

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: ROSCOMIE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: MAY      HOURS(LST): 0000-0100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | 1.1                 | 2.3  | 1.9  | .7    |       |       |       |       |       |       |            | 6.2          | 6.3  |
| NNE                    | .6                  | .5   | 2.8  | 2.4   |       |       |       |       |       |       |            | 6.4          | 9.2  |
| NE                     | .4                  | .9   | 1.6  | 2.7   |       |       |       |       |       |       |            | 5.0          | 9.4  |
| ENE                    | .5                  | 1.1  | 1.6  | 2.4   | .8    |       |       |       |       |       |            | 6.4          | 10.3 |
| E                      | 1.1                 | 1.7  | 3.1  | 2.6   |       |       |       |       |       |       |            | 8.3          | 8.0  |
| ESE                    | .3                  | 1.5  | 1.5  | .6    | .1    |       |       |       |       |       |            | 4.1          | 7.9  |
| SE                     | .5                  | 1.7  | 1.1  | .7    | .1    |       |       |       |       |       |            | 3.9          | 6.9  |
| SSE                    | .8                  | 1.2  | 1.6  | .6    | .2    |       |       |       |       |       |            | 4.5          | 7.8  |
| S                      | 1.4                 | 2.3  | 4.7  | 1.1   | .2    |       |       |       |       |       |            | 9.6          | 7.3  |
| SSW                    | .5                  | .9   | 1.8  | 2.7   | .6    |       |       |       |       |       |            | 6.6          | 10.5 |
| SW                     | .2                  | .7   | 1.7  | 3.0   | .2    |       |       |       |       |       |            | 5.5          | 11.4 |
| WSW                    | .3                  | .9   | .8   | .6    |       |       |       |       |       |       |            | 2.5          | 7.7  |
| W                      | 1.9                 | 1.4  | 1.9  | 1.9   |       |       |       |       |       |       |            | 7.0          | 7.2  |
| WNW                    | 2.4                 | 3.4  | 1.6  | .9    |       |       |       |       |       |       |            | 7.9          | 5.3  |
| NW                     | 3.4                 | 1.9  | .5   | .8    |       |       |       |       |       |       |            | 6.6          | 4.5  |
| NNW                    | 1.0                 | 1.5  | 1.1  | .1    |       |       |       |       |       |       |            | 3.7          | 5.6  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            | 5.7          | /    |
| TOTALS                 | 16.5                | 23.2 | 29.5 | 22.6  | 2.3   | .3    |       |       |       |       |            | 100.0        | 7.4  |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOCCONIE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: MAY      HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 |            |              |
| N                      | 1.2                 | 2.0  | 2.9  | 1.1   |       |       |       |       | 7.8        | 6.8          |
| MNE                    | .4                  | 1.7  | 2.2  | 2.0   | .1    |       |       |       | 6.0        | 9.0          |
| NE                     | .5                  | .5   | 1.2  | 1.2   |       |       |       |       | 3.4        | 8.6          |
| ENE                    | .8                  | .8   | 1.9  | 1.8   | .4    |       |       |       | 5.7        | 9.3          |
| E                      | 1.0                 | 2.7  | 4.0  | 3.3   | .1    |       |       |       | 10.6       | 8.6          |
| ESE                    | 1.2                 | .8   | 1.4  | .9    |       |       |       |       | 4.1        | 6.9          |
| SE                     | .9                  | .9   | 1.6  | .2    |       |       |       |       | 3.7        | 6.6          |
| SSE                    | 1.1                 | .8   | 1.1  | .5    | .4    | .3    |       |       | 4.2        | 8.9          |
| S                      | .6                  | 1.7  | 4.2  | 1.7   | .2    |       |       |       | 8.5        | 6.3          |
| SSW                    | .1                  | .6   | 2.8  | 2.0   | .5    | .1    |       |       | 6.2        | 10.5         |
| SW                     | .6                  |      | 1.4  | 2.0   | .4    | .1    |       |       | 4.6        | 10.8         |
| WSW                    | .8                  | .4   | 1.6  | .4    |       |       |       |       | 3.4        | 7.3          |
| #                      | 1.1                 | 1.4  | 1.1  | 1.5   |       |       |       |       | 5.1        | 7.3          |
| MNW                    | 1.9                 | 3.9  | 1.4  | 1.1   |       |       |       |       | 8.2        | 5.9          |
| NW                     | 3.2                 | 2.6  | 1.1  | .9    |       |       |       |       | 7.7        | 5.1          |
| NNW                    | 2.9                 | 1.7  | 1.0  | .1    |       |       |       |       | 4.7        | 4.6          |
| VARIABLE               |                     |      |      |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | 6.0        | //////       |
| TOTALS                 | 17.7                | 21.7 | 30.8 | 21.0  | 2.3   | .5    |       |       | 100.0      | 7.3          |

TOTAL NUMBER OF OBSERVATIONS: 928

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .6                  | 1.9  | 3.6  | 2.9   | .1    |       |       |       |       |       |            | 9.2          | 8.5  |
| NNE                    | .3                  | 1.6  | 1.5  | 2.7   |       |       |       |       |       |       |            | 6.1          | 9.1  |
| NE                     | .2                  | .6   | .8   | 1.6   | .6    |       |       |       |       |       |            | 3.9          | 11.0 |
| FNE                    | .4                  | 1.5  | 1.8  | 2.6   | .8    |       |       |       |       |       |            | 7.1          | 10.3 |
| E                      | 1.2                 | 1.9  | 3.3  | 3.9   | .2    |       |       |       |       |       |            | 10.6         | 8.9  |
| ESE                    | .4                  | .2   | .8   | .5    | .1    |       |       |       |       |       |            | 2.0          | 8.2  |
| SE                     | .5                  | 1.2  | 1.6  | 1.1   | .2    |       |       |       |       |       |            | 4.6          | 8.6  |
| SSE                    | .5                  | 1.3  | 1.0  | .9    | .2    | .1    |       |       |       |       |            | 3.9          | 8.7  |
| S                      | 1.3                 | 2.7  | 2.4  | 2.9   | .9    |       |       |       |       |       |            | 10.1         | 9.0  |
| SSW                    | .3                  | 1.0  | 2.9  | 2.9   | 1.0   | .5    |       |       |       |       |            | 8.6          | 11.2 |
| SW                     | .1                  | .6   | 1.9  | 1.4   | .8    |       |       |       |       |       |            | 4.9          | 11.1 |
| WSW                    |                     |      | 1.6  | 1.4   |       |       |       |       |       |       |            | 3.0          | 10.5 |
| W                      | .6                  | 1.4  | .9   | 1.7   |       |       |       |       |       |       |            | 4.6          | 8.0  |
| NNW                    | 2.5                 | 2.6  | 1.4  | 1.4   |       |       |       |       |       |       |            | 7.9          | 6.2  |
| NW                     | 2.2                 | 1.7  | .9   | 1.7   |       |       |       |       |       |       |            | 5.9          | 6.1  |
| NNW                    | 1.4                 | 1.2  | 1.7  | 1.0   |       |       |       |       |       |       |            | 5.3          | 6.8  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            | 2.2          | /    |
| TOTALS                 | 12.7                | 21.6 | 28.0 | 30.0  | 9.9   | .6    |       |       |       |       |            | 100.0        | 8.7  |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .5                  | 2.4  | 3.2  | 2.7   | .1    |       |       |       |       |       |       | 9.1        | 8.7          |
| NNE                    |                     | .6   | 1.2  | 3.4   |       |       |       |       |       |       |       | 5.6        | 11.0         |
| NE                     | .2                  | .4   | 1.7  | 4.3   | 1.2   |       |       |       |       |       |       | 7.9        | 12.4         |
| ENE                    | .4                  | 1.0  | 1.7  | 3.0   | .4    |       |       |       |       |       |       | 6.6        | 10.4         |
| E                      | .9                  | 1.1  | 2.5  | 2.3   | .8    |       |       |       |       |       |       | 7.5        | 9.6          |
| ESE                    | .1                  | .3   | .8   | 1.8   | .5    | .1    |       |       |       |       |       | 3.7        | 12.1         |
| SE                     |                     | .8   | .8   | 1.6   | .6    |       |       |       |       |       |       | 3.8        | 11.5         |
| SSE                    | .5                  | .9   | 2.1  | .8    | .2    |       |       |       |       |       |       | 4.3        | 8.7          |
| S                      | .5                  | 1.9  | 3.2  | 3.9   | 1.7   | .1    |       |       |       |       |       | 11.3       | 10.8         |
| SSW                    | .4                  | .6   | 1.2  | 4.3   | 1.5   | .9    |       |       |       |       |       | 9.0        | 13.8         |
| SW                     | .1                  | .4   | .8   | 2.1   | .8    | .1    | .1    |       |       |       |       | 4.3        | 13.2         |
| WSW                    |                     | .9   | .9   | 2.9   | .1    |       |       |       |       |       |       | 4.2        | 11.2         |
| W                      | .4                  | .9   | 1.5  | 2.2   | .2    |       |       |       |       |       |       | 5.3        | 9.9          |
| NNW                    | .6                  | 1.0  | 1.0  | 2.2   | .3    |       |       |       |       |       |       | 5.1        | 9.9          |
| NW                     | .9                  | 1.0  | 1.5  | .9    | .2    |       |       |       |       |       |       | 4.4        | 8.3          |
| NNW                    | .5                  | 1.5  | 2.5  | 2.8   | .1    |       |       |       |       |       |       | 7.5        | 9.3          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | .4         | /            |
| TOTALS                 | 6.4                 | 15.9 | 26.5 | 41.0  | 8.9   | 1.2   | .1    |       |       |       |       | 100.0      | 10.6         |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .1                  | 1.7  | 3.5  | 2.8   |       |       |       |       |       |       | 8.2        | 9.4          |
| NNE                    | .3                  | .9   | 1.1  | 3.3   | .7    |       |       |       |       |       | 6.2        | 11.2         |
| NE                     | .1                  | .6   | .4   | 2.4   | .9    |       |       |       |       |       | 4.6        | 12.4         |
| ENE                    | .3                  | .4   | 2.0  | 3.4   | 2.0   | .2    |       |       |       |       | 8.3        | 12.8         |
| E                      | .2                  | 1.1  | 1.6  | 1.9   | .4    |       |       |       |       |       | 5.2        | 10.0         |
| ESE                    | .1                  | .1   | .3   | 1.0   | .7    | .5    |       |       |       |       | 2.7        | 15.0         |
| SE                     | .1                  | .3   | .8   | 2.8   | .2    | .3    |       |       |       |       | 4.6        | 12.9         |
| SSC                    | .1                  | .4   | 1.0  | 2.5   | .8    |       |       |       |       |       | 4.8        | 12.1         |
| S                      |                     | 1.5  | 2.7  | 4.5   | 1.5   | .4    |       |       |       |       | 10.7       | 12.0         |
| SSW                    | .2                  | .5   | 1.3  | 4.7   | 3.1   | .7    |       |       |       |       | 10.5       | 14.6         |
| SW                     | .1                  | .2   | .4   | 2.8   | 1.4   | .7    | .3    |       |       |       | 6.0        | 16.1         |
| WSW                    | .1                  | .8   | 1.1  | 2.4   | .4    | .1    |       |       |       |       | 4.9        | 11.0         |
| W                      | .3                  | 1.5  | 1.2  | 3.1   | .2    |       |       |       |       |       | 6.3        | 10.0         |
| WNW                    | .2                  | 1.2  | .8   | 2.9   | .7    | .1    |       |       |       |       | 5.9        | 11.1         |
| NW                     | .1                  | 1.1  | 1.0  | 1.4   | .1    | .2    |       |       |       |       | 3.9        | 10.0         |
| NNW                    | .2                  | 1.5  | 2.5  | 2.5   | .2    |       |       |       |       |       | 7.0        | 9.5          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | .1         | /            |
| TOTALS                 | 2.7                 | 14.2 | 21.7 | 44.4  | 13.2  | 3.3   | .3    |       |       |       | 100.0      | 11.9         |

TOTAL NUMBER OF OBSERVATIONS: 916

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAF/TAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: MAY      HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .3                  | 1.9  | 3.5  | 2.1   | .1    |       |       |       |       |       |       | 8.3        | 8.7          |
| NNE                    | .4                  | 1.2  | 1.9  | 3.1   | .5    |       |       |       |       |       |       | 7.3        | 10.5         |
| NE                     | .1                  | .9   | .8   | 2.6   | 1.3   |       |       |       |       |       |       | 5.6        | 12.4         |
| ENE                    | .1                  | .7   | .8   | 2.2   | 1.9   | .2    |       |       |       |       |       | 5.5        | 14.2         |
| E                      | .3                  | .8   | 1.6  | 1.6   | .6    |       |       |       |       |       |       | 5.0        | 10.0         |
| ESE                    |                     | .8   | .8   | 1.0   | .8    | .2    |       |       |       |       |       | 3.5        | 12.4         |
| SE                     |                     | .2   | .8   | 3.2   | .6    | .2    |       |       |       |       |       | 5.1        | 13.3         |
| SSE                    |                     | .1   | .5   | 1.4   | .2    |       |       |       |       |       |       | 2.3        | 12.1         |
| S                      | .5                  | 1.3  | 2.7  | 4.3   | 1.4   | .3    |       |       |       |       |       | 10.6       | 11.7         |
| SSW                    | .3                  | .3   | 2.3  | 6.2   | 2.8   | .5    | .2    |       |       |       |       | 12.7       | 14.0         |
| SW                     | .2                  | .4   | .6   | 2.7   | 2.2   | 1.2   |       |       |       |       |       | 6.8        | 15.5         |
| WSW                    |                     | .6   | 1.1  | 2.1   | .4    |       |       |       |       |       |       | 4.2        | 11.2         |
| W                      | .5                  | 2.3  | 1.6  | 2.4   | 1.1   | .1    |       |       |       |       |       | 8.0        | 10.3         |
| WNW                    | .5                  | 1.0  | 1.6  | 2.1   | .3    |       |       |       |       |       |       | 5.5        | 9.4          |
| NW                     | .3                  | .5   | .9   | .6    | .5    |       |       |       |       |       |       | 2.9        | 10.2         |
| NNW                    | .2                  | 1.4  | 1.9  | 2.6   | .1    |       |       |       |       |       |       | 6.3        | 9.7          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | .4         | /            |
| TOTALS                 | 4.0                 | 14.1 | 23.4 | 40.0  | 15.0  | 2.8   | .2    |       |       |       |       | 100.0      | 11.6         |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .8                  | 1.2  | 2.0  | 1.1   |       |       |       |       |       |       | 5.0        | 7.8          |
| NNE                    | .1                  | 1.5  | 2.6  | 2.0   |       |       |       |       |       |       | 7.2        | 9.7          |
| NE                     | .8                  | 1.3  | 2.0  | 3.0   | .4    |       |       |       |       |       | 7.5        | 9.6          |
| ENE                    | .3                  | .4   | .5   | 2.4   | .5    |       |       |       |       |       | 4.2        | 11.6         |
| E                      | .1                  | .9   | .9   | 1.5   | .3    |       |       |       |       |       | 3.7        | 10.4         |
| ESE                    | .2                  | 1.0  | 1.0  | 1.1   | .3    |       |       |       |       |       | 3.6        | 9.6          |
| SE                     | .3                  | .7   | 1.5  | 1.4   | .3    |       |       |       |       |       | 4.2        | 9.8          |
| SSE                    | .4                  | 1.1  | 2.8  | 1.0   | .3    |       |       |       |       |       | 5.6        | 8.7          |
| S                      | .7                  | 2.2  | 4.8  | 3.9   | .3    | .1    |       |       |       |       | 11.9       | 9.4          |
| SSW                    | 1.0                 | 1.1  | 3.9  | 5.5   | 1.3   | .3    |       |       |       |       | 13.1       | 11.5         |
| SW                     | .3                  | .3   | 1.6  | 2.6   | 1.1   | .1    |       |       |       |       | 6.1        | 12.3         |
| WSW                    | .3                  | .9   | 1.2  | .9    | .1    |       |       |       |       |       | 3.3        | 8.5          |
| W                      | .5                  | 2.3  | 2.8  | 3.0   | .5    |       |       |       |       |       | 9.2        | 9.4          |
| NNW                    | 1.0                 | 1.8  | 2.4  | 1.5   | .1    |       |       |       |       |       | 6.8        | 7.7          |
| NW                     | .5                  | .4   | .5   | .5    | .1    |       |       |       |       |       | 2.2        | 8.0          |
| WNW                    | .4                  | 1.8  | 1.5  | 1.7   | .2    |       |       |       |       |       | 5.3        | 8.2          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       | 1.1        | /            |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            |              |
| TOTALS                 | 7.8                 | 18.4 | 32.0 | 33.7  | 6.1   | .5    |       |       |       |       | 100.0      | 9.6          |

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .5                  | 1.4  | 1.8  | .6    | .1    |       |       |       |       |       | 4.5        | 7.5          |
| NNE                    | .4                  | 2.4  | 2.2  | 3.0   | .2    |       |       |       |       |       | 8.2        | 9.1          |
| NE                     | .9                  | .8   | 2.2  | 3.0   | .1    |       |       |       |       |       | 6.9        | 9.3          |
| ENE                    | .8                  | .5   | 2.3  | 1.6   | .2    |       |       |       |       |       | 5.4        | 9.1          |
| E                      | 1.4                 | .8   | 1.6  | 2.1   | .1    |       |       |       |       |       | 5.9        | 7.9          |
| ESE                    | .3                  | 1.4  | 1.9  | .2    | .2    | .1    |       |       |       |       | 4.2        | 8.2          |
| SE                     | .4                  | .9   | 1.3  | .1    | .2    |       |       |       |       |       | 2.9        | 7.3          |
| SSE                    | 1.2                 | 1.9  | 1.6  | 1.2   | .1    |       |       |       |       |       | 6.0        | 7.3          |
| S                      | 1.3                 | 1.6  | 6.0  | 1.7   | .2    |       |       |       |       |       | 10.9       | 8.0          |
| SSW                    | .8                  | 1.7  | 4.8  | 3.8   | .2    | .1    |       |       |       |       | 11.3       | 9.4          |
| SW                     | .3                  | .8   | 1.2  | 1.4   | .6    | .1    |       |       |       |       | 4.4        | 10.5         |
| WSW                    | .5                  | 1.3  | 1.1  | .6    | .1    |       |       |       |       |       | 3.7        | 7.6          |
| W                      | 1.0                 | 2.7  | 2.4  | 1.7   |       |       |       |       |       |       | 7.8        | 7.3          |
| NNW                    | 1.3                 | 3.9  | 1.6  | .5    | .1    |       |       |       |       |       | 7.5        | 5.8          |
| NW                     | 1.3                 | 1.6  | .4   | .1    |       |       |       |       |       |       | 3.5        | 4.7          |
| NNW                    | .6                  | 1.5  | 1.0  | .9    |       |       |       |       |       |       | 3.9        | 7.0          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   |                     |      |      |       |       |       |       |       |       |       | 2.9        |              |
| TOTALS                 | 13.1                | 25.2 | 33.4 | 22.6  | 2.6   | .3    |       |       |       |       | 100.0      | 7.8          |

TOTAL NUMBER OF OBSERVATIONS: 926

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC      FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: MAY HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .7                  | 1.9  | 2.8  | 1.8   | .1    |       |       |       |       |       |            | 7.3          | 8.1  |
| NNE                    | .3                  | 1.3  | 1.9  | 2.9   | .2    |       |       |       |       |       |            | 6.6          | 9.8  |
| NE                     | .4                  | .9   | 1.3  | 2.4   | .6    |       |       |       |       |       |            | 5.6          | 10.7 |
| ENE                    | .5                  | .9   | 1.6  | 2.4   | .9    | .1    |       |       |       |       |            | 6.2          | 11.0 |
| E                      | .8                  | 1.7  | 2.3  | 2.4   | .3    |       |       |       |       |       |            | 7.1          | 9.0  |
| ESE                    | .3                  | .4   | 1.1  | .9    | .3    | .1    |       |       |       |       |            | 3.5          | 9.8  |
| SE                     | .4                  | .6   | 1.2  | 1.4   | .3    | .1    |       |       |       |       |            | 4.1          | 9.9  |
| SSE                    | .6                  | .7   | 1.5  | 1.1   | .3    | .1    |       |       |       |       |            | 4.5          | 9.0  |
| S                      | .8                  | 1.9  | 3.8  | 3.0   | .8    | .1    |       |       |       |       |            | 10.5         | 9.6  |
| SSW                    | .5                  | .9   | 2.6  | 4.0   | 1.4   | .4    | .0    |       |       |       |            | 9.8          | 12.1 |
| SW                     | .3                  | .4   | 1.2  | 2.2   | .9    | .3    | .1    |       |       |       |            | 5.3          | 12.8 |
| WSW                    | .3                  | .7   | 1.2  | 1.4   | .1    | .0    |       |       |       |       |            | 3.7          | 9.6  |
| W                      | .9                  | 1.7  | 1.7  | 2.2   | .3    | .0    |       |       |       |       |            | 6.7          | 8.7  |
| WNW                    | 1.3                 | 2.3  | 1.5  | 1.5   | .2    | .0    |       |       |       |       |            | 6.8          | 7.4  |
| NW                     | 1.5                 | 1.4  | .9   | .8    | .1    | .0    |       |       |       |       |            | 4.6          | 6.6  |
| NNW                    | .9                  | 1.5  | 1.7  | 1.4   | .1    |       |       |       |       |       |            | 5.5          | 7.9  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 2.4          | /    |
| TOTALS                 | 10.1                | 19.7 | 28.2 | 31.9  | 6.9   | 1.2   | .1    |       |       |       |            | 100.0        | 9.4  |

TOTAL NUMBER OF OBSERVATIONS: 7391

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | 1.6                 | 3.2  | 1.1  | .9    |       |       |       |       |       |       | 6.8        | 5.8          |
| NNE                    | .2                  | 1.7  | .8   | .6    |       |       |       |       |       |       | 3.3        | 7.3          |
| NE                     | .3                  | .8   | .9   | 1.7   | .1    |       |       |       |       |       | 3.9        | 9.1          |
| FNE                    | .6                  | .5   | .7   | 1.5   | .1    |       |       |       |       |       | 3.3        | 9.6          |
| E                      | 1.2                 | 1.2  | 1.1  | 2.9   | .6    |       |       |       |       |       | 7.0        | 9.6          |
| ESE                    | .8                  | .7   | .7   | .5    |       |       |       |       |       |       | 2.5        | 5.7          |
| SE                     | .2                  | .5   | .6   | .5    |       |       |       |       |       |       | 1.6        | 7.7          |
| SSE                    | .5                  | .7   | 1.1  | .1    |       |       |       |       |       |       | 2.8        | 6.7          |
| S                      | 1.5                 | 3.6  | 3.4  | .7    |       |       |       |       |       |       | 9.2        | 6.4          |
| SSW                    | .9                  | 1.2  | 3.2  | 1.4   | .6    |       |       |       |       |       | 7.3        | 8.9          |
| SW                     | .7                  | 1.2  | 4.1  | 1.2   | .1    |       |       |       |       |       | 7.4        | 7.9          |
| WSW                    | 1.0                 | 1.6  | 2.8  | .8    |       |       |       |       |       |       | 6.2        | 7.1          |
| W                      | 1.8                 | 4.4  | 5.3  | 1.1   |       |       |       |       |       |       | 12.7       | 6.6          |
| NNW                    | 3.3                 | 3.2  | 1.5  | .5    |       |       |       |       |       |       | 8.4        | 8.8          |
| NW                     | 3.4                 | 3.0  | .9   | .1    |       |       |       |       |       |       | 7.4        | 4.1          |
| NNW                    | 1.1                 | 1.1  | 1.4  | .5    |       |       |       |       |       |       | 4.1        | 6.1          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 6.5        | /            |
| TOTALS                 | 19.2                | 28.6 | 29.7 | 14.5  | 1.5   |       |       |       |       |       | 100.0      | 6.5          |

TOTAL NUMBER OF OBSERVATIONS: 880

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0300-0500

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.0                 | 3.1  | 2.8  | 1.7   |       |       |       |       |       |       |       | 8.6        | 7.2          |
| NNE                    | .5                  | 1.2  | 1.1  | 1.0   |       |       |       |       |       |       |       | 3.9        | 7.8          |
| NE                     | .5                  | 1.2  | .9   | .5    |       |       |       |       |       |       |       | 3.1        | 6.6          |
| ENE                    | .2                  | .6   | .9   | 2.2   | 1.1   |       |       |       |       |       |       | 5.0        | 12.3         |
| E                      | 1.7                 | 1.6  | 3.1  | 1.6   | .1    |       |       |       |       |       |       | 8.0        | 7.6          |
| ESE                    | 1.0                 | 1.0  | 1.0  | .2    |       |       |       |       |       |       |       | 3.3        | 5.8          |
| SE                     | .5                  | .7   | .9   | .2    |       |       |       |       |       |       |       | 1.8        | 7.1          |
| SSE                    | .2                  | 1.0  | 1.1  | .9    |       |       |       |       |       |       |       | 3.3        | 8.6          |
| S                      | .8                  | 1.5  | 3.6  | 1.6   | .2    |       |       |       |       |       |       | 7.7        | 8.3          |
| SSW                    | .8                  | .5   | 1.5  | 2.6   | .7    |       |       |       |       |       |       | 6.0        | 10.4         |
| SW                     | .1                  | .6   | 3.2  | 1.7   | .2    |       |       |       |       |       |       | 6.0        | 9.8          |
| WSW                    | .9                  | 2.3  | 2.8  | 1.0   |       |       |       |       |       |       |       | 7.0        | 7.1          |
| W                      | 1.1                 | 3.1  | 3.9  | 3.6   | .1    |       |       |       |       |       |       | 11.8       | 8.3          |
| NNW                    | 2.5                 | 2.0  | 1.9  | 2.7   | .1    |       |       |       |       |       |       | 9.5        | 6.8          |
| NW                     | 2.2                 | 2.2  | 1.2  | 1.7   |       |       |       |       |       |       |       | 6.6        | 5.8          |
| NNW                    | 1.1                 | 2.7  | 1.8  | 1.5   |       |       |       |       |       |       |       | 6.6        | 7.2          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 1.9        | /            |
| TOTALS                 | 15.1                | 24.9 | 31.8 | 23.7  | 2.6   |       |       |       |       |       |       | 100.0      | 7.8          |

TOTAL NUMBER OF OBSERVATIONS: 883

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFLTAC FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: JUN HOURS(LST): 0900-2100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .7                  | 2.1  | 3.1  | 2.4   |       |       |       |       |       |       |            | 8.3          | 8.5  |
| NNE                    | .8                  | 1.0  | 2.2  | 1.3   |       |       |       |       |       |       |            | 5.4          | 8.0  |
| NE                     | .2                  | .4   | 1.7  | 1.1   |       |       |       |       |       |       |            | 3.5          | 8.7  |
| ENE                    | .3                  | .8   | 1.3  | 2.0   | .9    |       |       |       |       |       |            | 5.4          | 11.2 |
| E                      | .7                  | .4   | 1.6  | 2.1   | .4    |       |       |       |       |       |            | 5.3          | 10.0 |
| ESE                    | .3                  | .9   | 1.0  | .8    | .1    |       |       |       |       |       |            | 3.1          | 8.1  |
| SE                     | .2                  | 1.3  | 1.7  | .8    | .1    |       |       |       |       |       |            | 4.2          | 8.0  |
| SSE                    | .3                  | .6   | 1.2  | .7    | .4    | .1    |       |       |       |       |            | 3.0          | 9.9  |
| S                      | .2                  | 1.2  | 3.0  | 2.0   | .4    |       |       |       |       |       |            | 7.0          | 9.7  |
| SSW                    | .1                  | .4   | 1.8  | 2.7   | 1.1   | .2    |       |       |       |       |            | 6.4          | 12.6 |
| SW                     | .1                  | .6   | 1.9  | 2.4   | .3    | .1    |       |       |       |       |            | 5.4          | 10.0 |
| WSW                    | .1                  | 1.2  | 3.6  | 1.7   | .1    | .1    |       |       |       |       |            | 6.9          | 9.2  |
| W                      | 1.2                 | 2.5  | 5.2  | 7.2   | .7    |       |       |       |       |       |            | 16.8         | 9.8  |
| WNW                    | .2                  | 1.8  | 2.7  | 2.6   | .3    |       |       |       |       |       |            | 8.3          | 9.0  |
| NW                     | .1                  | 1.2  | 1.9  | 2.2   | .1    |       |       |       |       |       |            | 5.6          | 9.3  |
| NNW                    | .2                  | 1.3  | 1.3  | 2.4   |       |       |       |       |       |       |            | 5.3          | 9.3  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | .1           |      |
| TOTALS                 | 6.6                 | 18.0 | 35.4 | 34.1  | 5.2   | .6    |       |       |       |       |            | 100.0        | 9.6  |

TOTAL NUMBER OF OBSERVATIONS: 989

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .1                  | 2.3  | 2.8  | 1.7   |       |       |       |       |       |       |       | 6.7        | 8.3          |
| NNE                    | .2                  | 1.6  | 2.6  | 1.2   |       |       |       |       |       |       |       | 5.7        | 8.4          |
| NE                     | .2                  | .5   | 1.5  | .8    | .1    |       |       |       |       |       |       | 3.1        | 9.2          |
| ENE                    |                     | .6   | 1.4  | 1.7   | .8    | .1    |       |       |       |       |       | 4.5        | 11.8         |
| E                      | .2                  | 1.4  | 1.1  | 1.0   | .7    |       |       |       |       |       |       | 5.2        | 10.3         |
| ESE                    | .1                  | 1.0  | .6   | 1.5   | .3    |       |       |       |       |       |       | 3.5        | 9.9          |
| SE                     | .2                  | .3   |      | 1.6   | .2    |       |       |       |       |       |       | 2.4        | 11.1         |
| SSE                    |                     | .5   | .7   | 1.5   | .2    |       |       |       |       |       |       | 2.8        | 10.7         |
| S                      | .2                  | 1.2  | 2.1  | 2.5   | .7    | .2    |       |       |       |       |       | 7.0        | 10.5         |
| SSW                    | .1                  | .9   | 1.7  | 2.5   | 1.6   | 1.0   |       |       |       |       |       | 7.8        | 13.9         |
| SW                     | .1                  | .8   | 1.7  | 2.2   | 1.4   | .2    | .2    |       |       |       |       | 7.4        | 12.7         |
| WSW                    | .5                  | 1.0  | 4.0  | 3.1   |       |       |       |       |       |       |       | 8.5        | 9.2          |
| W                      | 1.1                 | 1.5  | 4.6  | 8.0   | 1.8   |       |       |       |       |       |       | 17.1       | 10.9         |
| NNW                    | .5                  | 1.1  | 2.1  | 2.1   | .3    |       |       |       |       |       |       | 6.2        | 9.8          |
| NW                     | .5                  | .7   | 1.8  | 1.7   | .1    |       |       |       |       |       |       | 4.8        | 9.5          |
| NNW                    | .7                  | 1.6  | 3.2  | 1.6   |       |       |       |       |       |       |       | 7.2        | 8.4          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | .2         | /            |
| TOTALS                 | 4.8                 | 16.9 | 31.9 | 36.2  | 8.3   | 1.6   | .2    |       |       |       |       | 100.0      | 10.4         |

TOTAL NUMBER OF OBSERVATIONS: 884

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .3                  | 2.5  | 4.8  | .9    |       |       |       |       |       |       | 8.5        | 7.9          |
| NNE                    | .5                  | 1.1  | 1.7  | 1.0   | .3    |       |       |       |       |       | 4.6        | 8.5          |
| NE                     | .1                  | 1.4  | 1.8  | 1.6   |       |       |       |       |       |       | 4.9        | 9.0          |
| ENE                    | .2                  | .7   | 1.4  | 1.0   | .5    | .3    |       |       |       |       | 3.7        | 11.7         |
| E                      |                     | .1   | .8   | 2.3   | .6    |       |       |       |       |       | 3.7        | 12.8         |
| ESE                    | .1                  | .1   | .6   | 1.0   | .3    |       |       |       |       |       | 2.1        | 11.6         |
| SE                     | .2                  |      | 1.1  | 1.4   |       |       |       |       |       |       | 2.7        | 10.2         |
| SSE                    | .5                  | .6   | .8   | 1.2   |       |       |       |       |       |       | 2.9        | 8.4          |
| S                      | .7                  | .8   | 2.7  | 2.6   | .8    |       |       |       |       |       | 7.6        | 10.2         |
| SSW                    | .1                  | .7   | 2.3  | 4.3   | 1.8   | .5    |       |       |       |       | 9.6        | 13.2         |
| SW                     | .5                  | .1   | 1.9  | 4.8   | .9    | .2    |       |       |       |       | 8.4        | 12.5         |
| WSW                    | .2                  | 1.5  | 2.7  | 2.4   | .3    |       |       |       |       |       | 7.1        | 9.5          |
| W                      | .5                  | .9   | 3.8  | 8.3   | 2.1   |       |       |       |       |       | 15.5       | 12.1         |
| WNW                    |                     | 1.6  | 2.7  | 5.5   | .6    |       |       |       |       |       | 10.4       | 11.1         |
| NW                     | .1                  | .7   | 2.1  | .9    | .1    |       |       |       |       |       | 4.0        | 8.8          |
| NNW                    | .5                  | .9   | 1.8  | .9    |       |       |       |       |       |       | 4.0        | 7.7          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 62         | /            |
| TOTALS                 | 8.3                 | 13.1 | 33.0 | 39.9  | 8.4   | 1.0   |       |       |       |       | 100.0      | 10.6         |

TOTAL NUMBER OF OBSERVATIONS: 884

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFEETAC                          FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: JUN      HOURS(LST): 1800-2000

| DIRECTION<br>(IN DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|---------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                           | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                         | .7                  | 3.2  | 2.3  | 1.5   |       |       |       |       |       |       |       | 7.2        | 6.9          |
| NNE                       | .3                  | 1.9  | 1.5  | .7    | .2    |       |       |       |       |       |       | 4.6        | 7.7          |
| NE                        | .5                  | 1.1  | 2.1  | 1.6   |       |       |       |       |       |       |       | 5.2        | 8.2          |
| ENE                       | .1                  | .7   | .7   | 1.0   | .5    | .1    |       |       |       |       |       | 3.1        | 11.3         |
| E                         | .8                  | .7   | .8   | 2.2   | .5    |       |       |       |       |       |       | 4.9        | 10.2         |
| ESE                       | .2                  | .1   | 1.0  | .5    |       |       |       |       |       |       |       | 1.8        | 9.4          |
| SE                        | .2                  | .6   | 1.1  | .6    |       |       |       |       |       |       |       | 2.5        | 8.3          |
| SSE                       | .2                  | .8   | 1.3  | .3    |       |       |       |       |       |       |       | 2.6        | 7.7          |
| S                         | .7                  | 1.0  | 4.7  | 2.1   | .3    |       |       |       |       |       |       | 8.8        | 8.7          |
| SSW                       | .2                  | .0   | 3.8  | 4.1   | .5    |       |       |       |       |       |       | 9.4        | 10.3         |
| SW                        | .1                  | .3   | 2.7  | 3.6   | .2    | .3    |       |       |       |       |       | 7.4        | 11.4         |
| WSW                       | .3                  | 1.7  | 3.0  | 1.1   |       |       |       |       |       |       |       | 6.2        | 8.0          |
| W                         | .6                  | 3.1  | 6.2  | 7.2   | .7    |       |       |       |       |       |       | 17.7       | 10.0         |
| WNW                       | .8                  | 1.7  | 2.9  | 4.4   | .1    |       |       |       |       |       |       | 9.9        | 9.3          |
| NW                        | .1                  | 1.3  | 1.6  | 1.8   |       |       |       |       |       |       |       | 4.8        | 9.1          |
| NNW                       | .5                  | 1.4  | 1.1  | .6    |       |       |       |       |       |       |       | 3.5        | 7.1          |
| VARIABLE                  |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                      | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | .5         | /            |
| TOTALS                    | 6.4                 | 20.7 | 36.6 | 32.8  | 3.0   | .5    |       |       |       |       |       | 100.0      | 9.1          |

TOTAL NUMBER OF OBSERVATIONS: 877

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |        |        |        |        |        |        |        |        |        | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|--------------|
|                        | 1-3                 | 4-6    | 7-10   | 11-16  | 17-21  | 22-27  | 28-33  | 34-40  | 41-47  | 48-55  |            |              |
| N                      | 1.9                 | 2.3    | 1.8    | .3     |        |        |        |        |        |        | 6.4        | 5.5          |
| NNE                    | .9                  | 1.7    | 1.4    | .6     |        |        |        |        |        |        | 4.4        | 6.3          |
| NE                     | .6                  | .9     | 2.7    | .7     |        |        |        |        |        |        | 4.9        | 7.6          |
| ENE                    |                     | 1.3    | 1.0    | .9     | .2     |        |        |        |        |        | 3.3        | 9.1          |
| E                      | .3                  | .7     | 1.3    | 2.0    | .9     |        |        |        |        |        | 5.2        | 11.7         |
| ESE                    | .7                  | .5     | .6     |        |        |        |        |        |        |        | 1.7        | 4.9          |
| SE                     | .9                  | 1.3    | 1.1    | .2     |        |        |        |        |        |        | 3.5        | 6.0          |
| SSE                    | .2                  | 1.0    | 1.5    | .1     |        |        |        |        |        |        | 2.8        | 6.6          |
| S                      | 1.0                 | 2.6    | 6.4    | .6     | .1     |        |        |        |        |        | 17.7       | 7.2          |
| SSW                    | .2                  | 1.5    | 3.8    | 2.5    | .5     |        |        |        |        |        | 8.4        | 9.5          |
| SW                     | .1                  | .9     | 2.4    | .5     | .2     |        |        |        |        |        | 4.1        | 8.5          |
| WSW                    | .3                  | 3.0    | 3.1    | .9     |        |        |        |        |        |        | 7.2        | 7.3          |
| W                      | 2.3                 | 6.6    | 7.1    | 1.7    |        |        |        |        |        |        | 17.6       | 6.7          |
| NNW                    | .9                  | 4.7    | 2.6    | .7     |        |        |        |        |        |        | 8.9        | 6.2          |
| NW                     | .6                  | 1.7    | 1.6    | .5     |        |        |        |        |        |        | 4.3        | 6.7          |
| NNW                    | .6                  | .7     | 1.8    | .2     |        |        |        |        |        |        | 2.8        | 6.5          |
| VARIABLE               |                     |        |        |        |        |        |        |        |        |        | 3.6        | //////       |
| CALM                   | //////              | ////// | ////// | ////// | ////// | ////// | ////// | ////// | ////// | ////// | 100.0      | 7.0          |
| TOTALS                 | 11.5                | 31.2   | 39.6   | 12.7   | 1.9    |        |        |        |        |        |            |              |

TOTAL NUMBER OF OBSERVATIONS: 879

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.0                 | 2.4  | 2.4  | 1.7   |       |       |       |       |       |       |       | 7.4        | 7.0          |
| NNE                    | .5                  | 1.4  | 1.5  | .2    | .1    |       |       |       |       |       |       | 4.4        | 7.7          |
| NE                     | .4                  | .9   | 1.6  | 1.1   | .0    |       |       |       |       |       |       | 4.0        | 8.2          |
| ENE                    | .2                  | .7   | 1.1  | 1.4   | .6    | .1    |       |       |       |       |       | 4.1        | 11.1         |
| E                      | .7                  | .9   | 1.6  | 2.0   | .5    |       |       |       |       |       |       | 5.8        | 9.8          |
| ESE                    | .5                  | .6   | .8   | .6    | .1    |       |       |       |       |       |       | 2.6        | 7.8          |
| SE                     | .4                  | .6   | .9   | .7    | .0    |       |       |       |       |       |       | 2.6        | 8.3          |
| SSE                    | .3                  | .7   | 1.1  | .6    | .1    | .0    |       |       |       |       |       | 2.8        | 8.7          |
| S                      | .8                  | 1.0  | 3.6  | 1.7   | .3    | .0    |       |       |       |       |       | 8.3        | 8.4          |
| SSW                    | .4                  | .7   | 2.7  | 2.7   | .8    | .2    |       |       |       |       |       | 7.7        | 11.0         |
| SW                     | .3                  | .7   | 2.5  | 2.3   | .4    | .1    | .0    |       |       |       |       | 6.5        | 10.4         |
| WSW                    | .5                  | 1.3  | 3.2  | 1.5   | .1    | .0    |       |       |       |       |       | 7.0        | 8.2          |
| W                      | 1.3                 | 3.2  | 5.0  | 4.9   | .7    |       |       |       |       |       |       | 15.2       | 9.1          |
| NNW                    | 1.5                 | 2.6  | 2.3  | 2.3   | .2    |       |       |       |       |       |       | 8.8        | 7.8          |
| NW                     | 1.2                 | 1.7  | 1.6  | 1.0   | .0    |       |       |       |       |       |       | 5.6        | 6.8          |
| NNW                    | .8                  | 1.7  | 1.6  | 1.0   |       |       |       |       |       |       |       | 4.7        | 7.4          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 2.6        | /            |
| TOTALS                 | 10.6                | 22.9 | 33.5 | 25.9  | 4.0   | .5    | .0    |       |       |       |       | 100.0      | 8.4          |

TOTAL NUMBER OF OBSERVATIONS: 7059

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | 1.3                 | 2.7  | .8   |       |       |       |       |       |       |       | 4.8        | 4.8          |
| NNE                    | .6                  | 1.2  | 1.4  | .3    |       |       |       |       |       |       | 3.5        | 6.7          |
| NE                     | .4                  | .7   | 2.5  | .3    |       |       |       |       |       |       | 4.0        | 7.5          |
| ENE                    | .8                  | .9   | 1.0  | 1.3   | .1    |       |       |       |       |       | 4.0        | 8.6          |
| E                      | .4                  | .9   | 1.7  | 1.4   |       |       |       |       |       |       | 4.4        | 8.3          |
| ESE                    | .6                  | .7   | .7   |       |       |       |       |       |       |       | 1.9        | 5.5          |
| SE                     | .6                  | .2   | .4   | .1    |       |       |       |       |       |       | 1.7        | 5.6          |
| SSE                    | .2                  | .8   | .3   |       |       |       |       |       |       |       | 1.3        | 5.5          |
| S                      | .9                  | 1.9  | 3.9  | 1.4   |       |       |       |       |       |       | 8.1        | 7.7          |
| SSW                    | 1.0                 | 1.4  | 3.2  | 1.4   | .1    |       |       |       |       |       | 7.2        | 8.0          |
| SW                     | .6                  | 1.5  | 2.7  | 1.2   |       |       |       |       |       |       | 6.0        | 7.9          |
| WSW                    | .9                  | 2.7  | 3.2  | .3    |       |       |       |       |       |       | 7.5        | 6.6          |
| W                      | 2.2                 | 6.7  | 4.4  | .4    |       |       |       |       |       |       | 13.4       | 5.9          |
| WNW                    | 4.4                 | 5.7  | 2.4  | .2    |       |       |       |       |       |       | 12.7       | 4.8          |
| NW                     | 3.1                 | 3.5  | 1.4  | .1    | .1    |       |       |       |       |       | 8.3        | 4.9          |
| NNW                    | 1.3                 | 1.7  | .8   | .1    |       |       |       |       |       |       | 4.1        | 4.8          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 7.3        | /            |
| TOTALS                 | 19.3                | 32.3 | 30.9 | 9.3   | .3    |       |       |       |       |       | 100.0      | 5.9          |

TOTAL NUMBER OF OBSERVATIONS: 902

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
USAFCETAC FROM HOURLY OBSERVATIONS  
AIR WEATHER SERVICE/HAC

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |     |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|-----|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |     |
| N                      | 1.0                 | 2.4  | 1.4  |       |       |       |       |       |       |       |            | 4.8          | 5.3 |
| NNE                    | .3                  | 1.5  | 1.3  | .5    |       |       |       |       |       |       |            | 3.7          | 6.9 |
| NE                     | 1.1                 | .4   | 1.6  | .7    | .1    |       |       |       |       |       |            | 4.1          | 7.2 |
| ENE                    | .7                  | .4   | 1.5  | .9    |       |       |       |       |       |       |            | 3.5          | 7.9 |
| E                      | .8                  | 1.9  | 1.5  | .8    |       |       |       |       |       |       |            | 4.9          | 7.0 |
| ESE                    | .5                  | .7   |      |       |       |       |       |       |       |       |            | 1.2          | 3.7 |
| SE                     | .1                  | .2   | .1   |       |       |       |       |       |       |       |            | .4           | 5.0 |
| SSE                    | .7                  | 1.1  | .4   | .2    |       |       |       |       |       |       |            | 2.4          | 5.6 |
| S                      | 1.3                 | 2.8  | 2.7  | 1.2   |       |       |       |       |       |       |            | 8.1          | 6.8 |
| SSW                    | .8                  | 1.0  | 2.2  | 2.2   |       |       |       |       |       |       |            | 6.1          | 8.5 |
| SW                     | .7                  | 1.4  | 1.5  | 1.1   |       |       |       |       |       |       |            | 4.7          | 7.3 |
| WSW                    | .8                  | 2.5  | 4.7  | .7    |       |       |       |       |       |       |            | 8.7          | 7.1 |
| W                      | 2.5                 | 4.6  | 3.7  | .5    |       |       |       |       |       |       |            | 11.4         | 5.8 |
| WNW                    | 4.9                 | 6.4  | 1.9  | .2    |       |       |       |       |       |       |            | 13.3         | 4.5 |
| NW                     | 3.7                 | 4.1  | 1.4  | .1    |       |       |       |       |       |       |            | 9.3          | 4.5 |
| NNW                    | 2.5                 | 1.4  | .8   | .2    |       |       |       |       |       |       |            | 4.9          | 4.5 |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |     |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 8.4          | 1.1 |
| TOTALS                 | 22.2                | 33.0 | 26.9 | 9.0   | .4    |       |       |       |       |       |            | 100.0        | 5.6 |

TOTAL NUMBER OF OBSERVATIONS: 913

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS\*

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 2.0                 | 2.6  | 2.6  | .4    |       |       |       |       |       |       |       | 7.6        | 5.9          |
| NNE                    | .7                  | 1.3  | 1.7  | .8    |       |       |       |       |       |       |       | 4.4        | 7.1          |
| NE                     | .3                  | .6   | 2.1  | 1.7   |       |       |       |       |       |       |       | 4.8        | 9.2          |
| ENE                    | .3                  | 1.0  | 1.1  | 1.2   | .3    |       |       |       |       |       |       | 4.0        | 9.1          |
| E                      | 1.0                 | 1.4  | 2.6  | 1.4   |       |       |       |       |       |       |       | 6.4        | 7.6          |
| ESE                    | .4                  | .2   | .3   |       |       |       |       |       |       |       |       | 1.0        | 4.8          |
| SE                     | .7                  | .7   | .6   | .1    |       |       |       |       |       |       |       | 1.6        | 5.2          |
| SSE                    | .6                  | .9   | .7   | .2    | .1    |       |       |       |       |       |       | 2.4        | 6.7          |
| S                      | 1.1                 | 1.6  | 2.9  | 1.8   | .1    | .1    |       |       |       |       |       | 7.6        | 8.4          |
| SSW                    | .7                  | 1.3  | 2.2  | 2.2   | .2    |       |       |       |       |       |       | 6.7        | 8.9          |
| SW                     | .2                  | .7   | 2.0  | 1.1   |       |       |       |       |       |       |       | 4.0        | 8.4          |
| WSW                    | .1                  | 1.1  | 4.1  | 1.6   |       |       |       |       |       |       |       | 6.9        | 8.4          |
| W                      | 2.0                 | 3.2  | 5.2  | 2.6   |       |       |       |       |       |       |       | 13.0       | 7.3          |
| WNW                    | 3.9                 | 3.6  | 3.1  | 1.9   |       |       |       |       |       |       |       | 12.3       | 6.1          |
| NW                     | 3.9                 | 2.9  | 1.3  | .6    |       |       |       |       |       |       |       | 8.7        | 4.7          |
| NNW                    | 1.6                 | 1.6  | 1.7  | .7    | .1    |       |       |       |       |       |       | 5.6        | 6.5          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 3.1        | /            |
| TOTALS                 | 19.4                | 24.1 | 34.1 | 18.1  | .9    | .2    |       |       |       |       |       | 100.0      | 6.9          |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .4                  | 3.2  | 3.6  | 1.1   |       |       |       |       |       |       |       | 8.2        | 7.6          |
| NNE                    | .2                  | 1.2  | 1.1  | 1.5   |       |       |       |       |       |       |       | 4.1        | 8.7          |
| NE                     | .4                  | .5   | 1.6  | 1.4   |       |       |       |       |       |       |       | 4.1        | 8.9          |
| ENE                    | .5                  | .9   | 2.0  | 1.6   | .7    | .2    |       |       |       |       |       | 5.3        | 9.8          |
| E                      | 1.0                 | 1.6  | 2.4  | 1.8   | .1    |       |       |       |       |       |       | 6.2        | 7.4          |
| ESE                    | .8                  | .7   | 1.2  | .2    | .1    |       |       |       |       |       |       | 3.0        | 6.8          |
| SE                     | .8                  | .7   | .4   | .9    |       |       |       |       |       |       |       | 2.4        | 7.6          |
| SSE                    | .2                  | .5   | .8   | .3    |       |       |       |       |       |       |       | 1.9        | 7.2          |
| S                      | 1.0                 | 1.2  | 2.0  | 2.4   | .4    |       |       |       |       |       |       | 7.0        | 9.5          |
| SSW                    | .5                  | .7   | 1.4  | 3.1   | .2    |       |       |       |       |       |       | 5.5        | 10.7         |
| SW                     | .5                  | .7   | 1.8  | 2.7   | .2    |       |       |       |       |       |       | 5.6        | 10.1         |
| WSW                    | .8                  | 1.5  | 3.4  | 2.4   | .1    |       |       |       |       |       |       | 8.2        | 8.7          |
| W                      | .9                  | 3.3  | 6.9  | 6.7   | .1    |       |       |       |       |       |       | 17.5       | 9.2          |
| WNW                    | .4                  | 2.1  | 3.8  | 3.5   |       |       |       |       |       |       |       | 9.9        | 9.0          |
| NW                     | .2                  | 1.9  | 2.0  | 1.4   |       |       |       |       |       |       |       | 5.5        | 8.4          |
| NNW                    | .3                  | 1.2  | 2.0  | 1.4   | .1    | .1    |       |       |       |       |       | 5.5        | 9.2          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | .2         | 1.1          |
| TOTALS                 | 9.1                 | 20.7 | 36.5 | 31.1  | 2.1   | .3    |       |       |       |       |       | 100.0      | 8.8          |

TOTAL NUMBER OF OBSERVATIONS: 910

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .9                  | 1.9  | 2.1  | 1.1   |       |       |       |       |       |       |            | 6.0          | 7.2  |
| NNE                    | .3                  | .9   | 1.8  | 1.4   |       |       |       |       |       |       |            | 4.4          | 8.9  |
| NE                     | .3                  | .8   | 1.8  | 1.5   | .2    |       |       |       |       |       |            | 4.7          | 9.6  |
| ENE                    | .4                  | .3   | 1.2  | 1.9   | .1    |       |       |       |       |       |            | 4.0          | 10.3 |
| E                      | .3                  | .7   | 3.3  | .8    |       |       |       |       |       |       |            | 5.1          | 8.7  |
| ESE                    | .3                  | .1   | .3   | .6    | .2    |       |       |       |       |       |            | 1.6          | 9.4  |
| SE                     | .4                  | .1   | .3   | 1.1   | .2    |       |       |       |       |       |            | 2.7          | 10.3 |
| SSF                    | .6                  | .2   | 1.0  | .3    | .1    |       |       |       |       |       |            | 2.2          | 7.5  |
| S                      | .8                  | .7   | 2.4  | 2.4   | .8    |       |       |       |       |       |            | 7.1          | 10.5 |
| SSW                    | .6                  | .4   | 1.1  | 3.4   | 1.4   | .1    |       |       |       |       |            | 7.1          | 12.4 |
| SW                     | .4                  | .4   | 1.2  | 3.7   | .7    |       |       |       |       |       |            | 6.1          | 11.2 |
| WSW                    | .2                  | .7   | 2.2  | 2.7   | .1    |       |       |       |       |       |            | 5.4          | 9.8  |
| W                      | .7                  | 2.7  | 6.0  | 10.6  | .6    |       |       |       |       |       |            | 20.4         | 10.5 |
| WNW                    | .9                  | 1.9  | 3.6  | 3.7   | .1    |       |       |       |       |       |            | 9.7          | 9.0  |
| NW                     | .2                  | 1.9  | 2.8  | 1.4   |       |       |       |       |       |       |            | 6.3          | 8.2  |
| NNW                    | .3                  | 1.5  | 2.4  | 2.1   | .3    |       |       |       |       |       |            | 6.8          | 9.0  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | .3           | /    |
| TOTALS                 | 7.8                 | 15.4 | 33.7 | 37.0  | 4.9   | .1    |       |       |       |       |            | 100.0        | 9.7  |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .2                  | 1.5  | 2.8  | 1.5   | .1    |       |       |       |       |       | 6.2        | 8.5          |
| NNE                    | .1                  | .7   | 1.9  | 1.3   |       |       |       |       |       |       | 4.0        | 9.0          |
| NE                     | .3                  | .2   | 1.7  | 2.4   |       |       |       |       |       |       | 4.6        | 10.2         |
| ENE                    | .2                  | .3   | 1.1  | 1.5   | .2    |       |       |       |       |       | 3.4        | 10.2         |
| E                      | .7                  | .7   | 2.1  | 1.3   |       |       |       |       |       |       | 4.7        | 8.2          |
| ESE                    | .1                  | .1   | .6   | .8    |       |       |       |       |       |       | 1.5        | 9.4          |
| SE                     | .2                  | .1   | .9   | .7    |       |       |       |       |       |       | 1.9        | 8.7          |
| SSF                    |                     | .7   | 1.5  | 1.1   |       |       |       |       |       |       | 3.3        | 9.3          |
| S                      | .7                  | .3   | 2.3  | 3.7   | .4    |       |       |       |       |       | 7.5        | 10.4         |
| SSW                    | .3                  | .7   | 1.3  | 4.4   | 3.4   |       |       |       |       |       | 9.8        | 14.1         |
| SW                     | .4                  | .4   | .4   | 1.9   | .9    |       |       |       |       |       | 4.1        | 11.4         |
| WSW                    | .1                  | 1.2  | 2.2  | 2.0   | .1    |       |       |       |       |       | 5.6        | 9.2          |
| W                      | .9                  | 2.0  | 6.3  | 12.1  | 1.5   |       |       |       |       |       | 22.8       | 11.1         |
| VNW                    | .3                  | 2.1  | 3.6  | 4.1   | .1    |       |       |       |       |       | 10.2       | 9.3          |
| NW                     | .2                  | .8   | 1.9  | 1.9   |       |       |       |       |       |       | 4.7        | 9.3          |
| NNW                    | .6                  | 1.4  | 2.2  | 1.0   | .2    |       |       |       |       |       | 5.4        | 8.0          |
| <b>VARIABLE</b>        |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | .3         | /            |
| TOTALS                 | 5.4                 | 12.9 | 32.7 | 41.7  | 7.0   |       |       |       |       |       | 100.0      | 10.2         |

TOTAL NUMBER OF OBSERVATIONS: 909

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: ROSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 1800-2000

| DIRECTION<br>(IN DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|---------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                           | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                         | .7                  | 2.1  | 1.4  | 1.7   |       |       |       |       |       |       |       | 5.9        | 7.7          |
| NNE                       | .2                  | 1.0  | 2.2  | .9    |       |       |       |       |       |       |       | 4.2        | 7.9          |
| NE                        | .3                  | 1.3  | 2.5  | 1.2   |       |       |       |       |       |       |       | 5.4        | 8.0          |
| ENE                       | .3                  | .3   | 1.1  | .7    | .1    |       |       |       |       |       |       | 2.5        | 8.7          |
| E                         | .1                  | .9   | 1.8  | 1.0   |       |       |       |       |       |       |       | 4.0        | 7.9          |
| ESE                       | .4                  | .7   | .3   | .2    |       |       |       |       |       |       |       | 1.3        | 5.6          |
| SE                        | .1                  | .8   | .6   | .2    |       |       |       |       |       |       |       | 1.7        | 6.8          |
| SSE                       |                     | 1.4  | .9   | .4    |       |       |       |       |       |       |       | 2.8        | 7.1          |
| S                         | .2                  | 1.5  | 5.6  | 2.3   | .2    |       |       |       |       |       |       | 10.0       | 8.9          |
| SSW                       | .1                  | .8   | 3.0  | 4.4   | 1.0   |       |       |       |       |       |       | 9.3        | 11.5         |
| SW                        | .3                  | .6   | 1.8  | 2.2   | .8    |       |       |       |       |       |       | 5.6        | 10.8         |
| WSW                       | .3                  | 1.3  | 1.8  | 1.3   |       |       |       |       |       |       |       | 4.8        | 7.8          |
| W                         | 1.0                 | 4.3  | 8.7  | 7.6   | .6    |       |       |       |       |       |       | 22.2       | 9.3          |
| WNW                       | .8                  | 2.7  | 4.5  | 3.2   | .1    |       |       |       |       |       |       | 11.3       | 8.4          |
| NW                        | .1                  | 1.6  | 1.9  | .8    |       |       |       |       |       |       |       | 4.5        | 7.8          |
| NNW                       | .2                  | 1.7  | 1.1  | .6    |       |       |       |       |       |       |       | 3.5        | 7.2          |
| VARIABLE                  |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                      | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 1.0        | /            |
| TOTALS                    | 5.5                 | 22.8 | 39.3 | 28.7  | 2.8   |       |       |       |       |       |       | 100.0      | 8.7          |

TOTAL NUMBER OF OBSERVATIONS: 904

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | 1.0                 | 2.9  | 1.4  | .6    |       |       |       |       |       |       | 5.9        | 6.2          |
| NNE                    | .3                  | 1.5  | 1.2  | .7    |       |       |       |       |       |       | 3.3        | 6.4          |
| NE                     | .1                  | 1.0  | 3.2  | 1.5   |       |       |       |       |       |       | 5.9        | 8.7          |
| ENF                    | .3                  | 1.4  | .9   | .6    | .2    |       |       |       |       |       | 3.4        | 8.3          |
| E                      | .8                  | 1.8  | 2.1  | .9    |       |       |       |       |       |       | 5.4        | 7.1          |
| ESE                    | .3                  | .6   | .7   | .1    |       |       |       |       |       |       | 1.7        | 6.2          |
| SE                     | .6                  | .4   | .3   |       |       |       |       |       |       |       | 1.3        | 4.7          |
| SSE                    | .7                  | .7   | .7   |       |       |       |       |       |       |       | 2.0        | 5.1          |
| S                      | .8                  | 2.9  | 3.1  | 1.7   |       |       |       |       |       |       | 8.4        | 7.3          |
| SSW                    | .8                  | 1.9  | 3.1  | 2.7   |       |       |       |       |       |       | 8.4        | 8.6          |
| SW                     | .1                  | 1.2  | 3.3  | 1.2   | .2    |       |       |       |       |       | 6.1        | 8.9          |
| WSW                    | 1.2                 | 1.9  | 2.7  | .3    |       |       |       |       |       |       | 6.1        | 6.5          |
| W                      | 2.3                 | 8.3  | 6.2  | 1.8   |       |       |       |       |       |       | 18.6       | 6.5          |
| WNW                    | 1.4                 | 7.5  | 3.0  | .2    |       |       |       |       |       |       | 12.2       | 5.7          |
| NW                     | .7                  | 3.6  | 1.1  | .1    |       |       |       |       |       |       | 5.5        | 5.5          |
| NNW                    | .6                  | 1.2  | .6   | .2    |       |       |       |       |       |       | 2.5        | 5.7          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 3.4        | /            |
| TOTALS                 | 11.9                | 38.8 | 33.5 | 11.9  | .8    |       |       |       |       |       | 100.0      | 6.6          |

TOTAL NUMBER OF OBSERVATIONS: 905

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC      FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: ROSENHIE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: JUL HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 3-5                 | 6-8  | 9-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .9                  | 2.4  | 2.0  | .9    | .0    |       |       |       |       |       |       | 6.2        | 6.7          |
| NNE                    | .3                  | 1.7  | 1.6  | .9    |       |       |       |       |       |       |       | 4.1        | 7.8          |
| NE                     | .4                  | .7   | 2.1  | 1.4   | .0    | .0    |       |       |       |       |       | 4.7        | 8.7          |
| ENE                    | .5                  | .7   | 1.2  | 1.1   | .2    | .0    |       |       |       |       |       | 3.8        | 9.2          |
| E                      | .7                  | 1.2  | 2.2  | 1.1   | .0    |       |       |       |       |       |       | 5.1        | 7.7          |
| ESE                    | .4                  | .4   | .5   | .7    | .0    |       |       |       |       |       |       | 1.6        | 6.6          |
| SE                     | .8                  | .3   | .5   | .4    | .0    |       |       |       |       |       |       | 1.7        | 7.4          |
| CSE                    | .4                  | .8   | .8   | .4    | .0    |       |       |       |       |       |       | 2.3        | 7.0          |
| S                      | .8                  | 1.6  | 3.1  | 2.1   | .2    | .0    |       |       |       |       |       | 8.0        | 8.6          |
| SSW                    | .6                  | .9   | 2.2  | 3.0   | .8    | .7    |       |       |       |       |       | 7.5        | 10.5         |
| SW                     | .4                  | .8   | 1.8  | 1.9   | .3    |       |       |       |       |       |       | 5.3        | 9.5          |
| WSW                    | .6                  | 1.6  | 3.0  | 1.4   | .0    |       |       |       |       |       |       | 6.7        | 7.9          |
| W                      | 1.6                 | 4.3  | 5.9  | 5.2   | .3    |       |       |       |       |       |       | 17.4       | 8.6          |
| WNW                    | 2.1                 | 4.0  | 3.2  | 2.1   | .0    |       |       |       |       |       |       | 11.4       | 6.9          |
| NNW                    | 1.5                 | 2.6  | 1.7  | .9    | .0    |       |       |       |       |       |       | 6.6        | 6.2          |
| NNW                    | .9                  | 1.5  | 1.8  | .8    | .1    | .0    |       |       |       |       |       | 4.8        | 7.1          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 3.0        | /            |
| TOTALS                 | 12.6                | 25.1 | 33.4 | 23.4  | 2.9   | .1    |       |       |       |       |       | 100.0      | 7.8          |

TOTAL NUMBER OF OBSERVATIONS: 7243

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC      FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | PERIOD OF RECORD: 77-86<br>MONTH: AUG HOURS(LST): 0000-0200<br>TOTAL % | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|--|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56  |              |      |
| N                      | 1.9                 | 2.4  | 2.0  | .2    |       |       |       |       |       |       |  | 6.5          | 5.6  |
| NNE                    | .8                  | 1.6  | .6   | .2    |       |       |       |       |       |       |  | 3.1          | 5.4  |
| NE                     | .4                  | .9   | .7   | .2    |       |       |       |       |       |       |  | 2.4          | 6.7  |
| ENE                    | .2                  | 1.0  | 1.5  | .9    |       |       |       |       |       |       |  | 4.3          | 7.1  |
| E                      | 1.1                 | 1.6  | 1.6  | .7    |       |       |       |       |       |       |  | 4.9          | 6.3  |
| ESE                    | 1.0                 | .6   | .9   | .1    | .1    |       |       |       |       |       |  | 2.7          | 5.6  |
| SE                     | .6                  | .6   | .7   | .1    |       |       |       |       |       |       |  | 2.1          | 6.6  |
| SSE                    | .7                  | .9   | 1.0  | .1    |       |       |       |       |       |       |  | 2.7          | 5.8  |
| S                      | 1.6                 | 2.2  | 4.6  | 1.3   | .3    | .2    |       |       |       |       |  | 10.8         | 8.0  |
| SSW                    | .6                  | 1.3  | 2.0  | 2.6   | .6    | .3    |       |       |       |       |  | 7.4          | 10.3 |
| SW                     | .6                  | .8   | 3.6  | 2.0   | .9    |       |       |       |       |       |  | 7.9          | 9.8  |
| WSW                    | .8                  | 2.2  | 3.4  | .3    |       |       |       |       |       |       |  | 7.4          | 6.9  |
| W                      | 1.7                 | 3.2  | 3.0  | .2    |       |       |       |       |       |       |  | 8.8          | 6.3  |
| WNW                    | 3.5                 | 4.6  | 1.3  | .7    |       |       |       |       |       |       |  | 9.9          | 4.7  |
| NW                     | 2.6                 | 1.0  | .8   | .4    |       |       |       |       |       |       |  | 4.8          | 4.6  |
| NNW                    | .4                  | 1.9  | 1.8  |       |       |       |       |       |       |       |  | 4.7          | 6.2  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |  |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /  | 10.2         | /    |
| TOTALS                 | 19.1                | 27.1 | 29.9 | 11.7  | 1.9   | .6    |       |       |       |       |  | 100.0        | 6.2  |

TOTAL NUMBER OF OBSERVATIONS: 890

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
 MONTH: AUG      HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | 1.3                 | 2.0  | 1.5  | 4.1   |       |       |       |       |       |       |       | 5.5        | 5.3          |
| NNE                    | .5                  | 1.3  | 1.2  | .7    |       |       |       |       |       |       |       | 3.3        | 6.4          |
| NE                     | .5                  | .7   | 1.0  | .7    |       |       |       |       |       |       |       | 2.4        | 7.2          |
| ENNE                   | .9                  | .7   | 1.6  | .9    |       |       |       |       |       |       |       | 3.7        | 7.5          |
| E                      | 1.3                 | 2.3  | 1.6  | .9    |       |       |       |       |       |       |       | 6.1        | 6.4          |
| ESE                    | .9                  | 1.0  | 1.0  |       |       |       |       |       |       |       |       | 2.7        | 5.3          |
| SE                     | 1.7                 | .9   | .9   | .7    | .1    |       |       |       |       |       |       | 3.4        | 5.6          |
| SSE                    | .9                  | 1.2  | .8   |       |       |       |       |       |       |       |       | 2.8        | 5.0          |
| S                      | 1.3                 | 2.0  | 5.0  | 1.5   | .8    |       |       |       |       |       |       | 10.6       | 9.4          |
| SSW                    | .7                  | 1.1  | 3.6  | 2.0   | .5    | .1    |       |       |       |       |       | 9.0        | 9.4          |
| SW                     | .9                  | .5   | 2.1  | 2.0   | .8    | .1    |       |       |       |       |       | 5.9        | 9.6          |
| WSW                    | .3                  | 2.4  | 2.7  | .8    | .1    |       |       |       |       |       |       | 6.5        | 6.8          |
| W                      | 1.8                 | 4.5  | 1.4  | .7    | .2    |       |       |       |       |       |       | 8.8        | 6.2          |
| WNW                    | 3.1                 | 3.2  | .7   | .9    |       |       |       |       |       |       |       | 7.3        | 4.3          |
| NW                     | 3.7                 | 2.7  | .7   | .7    |       |       |       |       |       |       |       | 7.1        | 4.3          |
| NNW                    | 2.1                 | 1.6  | 1.4  | .6    |       |       |       |       |       |       |       | 5.6        | 5.4          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 9.3        | /            |
| TOTALS                 | 21.7                | 28.0 | 27.2 | 11.4  | 2.2   | .2    |       |       |       |       |       | 100.0      | 6.0          |

TOTAL NUMBER OF OBSERVATIONS: 918

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOUCHEE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |    | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|----|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | 56 |            |              |
| N                      | 1.3                 | 2.4  | 2.7  | 1.1   |       |       |       |       |       |       |    | 6.8        | 5.9          |
| NNE                    | .7                  | 1.7  | 1.6  | 1.6   | .6    |       |       |       |       |       |    | 3.8        | 6.9          |
| NE                     | .4                  | .7   | 1.0  | 1.4   | .1    |       |       |       |       |       |    | 2.7        | 7.7          |
| ENE                    | 1.1                 | .6   | 2.0  | 1.6   |       |       |       |       |       |       |    | 5.2        | 8.4          |
| E                      | 1.3                 | 1.6  | 1.7  | .9    |       |       |       |       |       |       |    | 5.3        | 6.4          |
| ESE                    | 1.2                 | .6   | .3   | .2    |       |       |       |       |       |       |    | 2.3        | 4.7          |
| SE                     | .6                  | 1.1  | .8   | .9    | .1    |       |       |       |       |       |    | 3.5        | 7.5          |
| SSE                    | .3                  | .4   | 1.2  | .6    |       |       |       |       |       |       |    | 2.6        | 7.6          |
| S                      | 2.1                 | 2.1  | 3.3  | 2.1   | .2    |       |       |       |       |       |    | 2.9        | 7.5          |
| SSW                    | .4                  | .9   | 3.9  | 3.6   | .4    | .1    |       |       |       |       |    | 2.1        | 10.2         |
| SW                     | .7                  | .6   | 2.7  | 1.2   | 1.1   | .2    |       |       |       |       |    | 6.5        | 10.7         |
| WSW                    | .9                  | 1.6  | 2.9  | 1.1   | .1    |       |       |       |       |       |    | 6.6        | 7.6          |
| W                      | 2.7                 | 4.1  | 3.2  | .7    |       |       |       |       |       |       |    | 10.7       | 5.8          |
| NNW                    | 4.2                 | 2.1  | 1.1  | 1.1   | .2    |       |       |       |       |       |    | 9.2        | 5.3          |
| NW                     | 2.9                 | 2.1  | 1.4  | .5    |       |       |       |       |       |       |    | 7.2        | 5.4          |
| NNW                    | .2                  | 2.0  | .8   | .6    |       |       |       |       |       |       |    | 4.2        | 6.2          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |    |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /  | 4.3        | 1.1          |
| TOTALS                 | 21.8                | 24.5 | 30.3 | 16.5  | 2.3   | .3    |       |       |       |       |    | 100.0      | 6.9          |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAF/TAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: AUG      HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 |            |              |
| N                      | .7                  | 1.6  | 4.1  | 1.1   |       |       |       |       | 7.5        | 7.6          |
| NNW                    | .7                  | .9   | 2.2  | .9    |       |       |       |       | 4.6        | 7.9          |
| NE                     | .2                  | .7   | 1.6  | .5    |       |       |       |       | 3.1        | 8.1          |
| ENE                    | 1.0                 | .9   | 1.1  | 2.1   | .1    |       |       |       | 5.2        | 8.8          |
| E                      | 1.0                 | 2.1  | 1.4  | .9    | .3    |       |       |       | 5.7        | 7.6          |
| ESE                    | .2                  | 1.2  | .9   | .7    | .1    |       |       |       | 3.1        | 8.0          |
| SE                     | .7                  | .7   | .5   | .4    | .5    | .1    |       |       | 2.6        | 10.5         |
| SSE                    | .2                  | .5   | .5   | 1.1   |       |       | .1    |       | 2.5        | 10.2         |
| SSW                    | .7                  | 1.2  | 2.4  | 2.2   | .9    | .1    |       |       | 8.1        | 10.5         |
| SW                     | .9                  | .4   | 1.4  | 2.6   | .7    | .1    | .2    |       | 5.9        | 12.0         |
| WSW                    | .4                  | 2.0  | 3.1  | 3.4   | .5    |       |       |       | 9.2        | 9.5          |
| W                      | .9                  | 2.0  | 3.6  | 3.2   | .2    | .1    |       |       | 10.0       | 9.1          |
| WNW                    | 1.0                 | 2.7  | 3.1  | 4.5   | .2    |       |       |       | 11.1       | 9.2          |
| NNW                    | .2                  | 1.2  | 2.0  | 1.1   | .2    | .1    |       |       | 6.2        | 8.0          |
| ENW                    | 1.1                 | 3.4  | 2.0  | 1.6   |       |       |       |       | 6.2        | 7.7          |
| <hr/>                  |                     |      |      |       |       |       |       |       |            |              |
| VARIABLE               |                     |      |      |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /          | 7 /          |
| TOTALS                 | 10.3                | 20.2 | 32.0 | 30.0  | 5.5   | 1.0   | .3    |       | 100.0      | 9.2          |

TOTAL NUMBER OF OBSERVATIONS: 910

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |     |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6 | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .5                  | 2.6 | 3.8  | 1.0   |       |       |       |       |       |       |       | 7.9        | 7.5          |
| NNE                    | .3                  | .6  | .9   | .8    |       |       |       |       |       |       |       | 2.9        | 6.0          |
| NE                     | .1                  | .4  | .7   | 1.3   |       |       |       |       |       |       |       | 2.5        | 9.6          |
| ENE                    | .3                  | .8  | 1.1  | .9    | .2    |       |       |       |       |       |       | 3.3        | 8.8          |
| E                      | 1.0                 | .9  | 1.4  | 1.4   | .3    |       |       |       |       |       |       | 5.0        | 9.0          |
| ESE                    | .4                  | .5  | .9   | 1.1   | .1    |       |       |       |       |       |       | 3.4        | 8.6          |
| SE                     | .3                  | .9  | .9   | .5    | .2    |       |       |       |       |       |       | 2.0        | 10.4         |
| SSE                    | .2                  | .9  | 1.1  | 1.0   | .1    |       |       |       |       |       |       | 3.3        | 8.6          |
| S                      | .2                  | 1.0 | 2.4  | 4.5   | 1.3   | .1    |       |       |       |       |       | 9.5        | 12.2         |
| SSW                    | .2                  | .5  | .8   | 3.5   | 2.9   | 1.3   |       |       |       |       |       | 9.2        | 15.5         |
| SW                     | .5                  | .7  | 1.3  | 3.4   | 1.1   | .3    |       |       |       |       |       | 7.4        | 12.3         |
| WSW                    | .7                  | 1.5 | 2.0  | 3.6   | .3    |       |       |       |       |       |       | 8.1        | 9.8          |
| W                      | .2                  | 1.6 | 5.7  | 6.2   | .4    |       |       |       |       |       |       | 14.9       | 10.3         |
| WNW                    | .2                  | 1.6 | 2.6  | 2.9   | .7    | .1    |       |       |       |       |       | 8.0        | 10.3         |
| WNE                    | .7                  | 1.2 | 2.7  | 1.0   | .2    |       |       |       |       |       |       | 6.4        | 9.2          |
| NEW                    | .4                  | 1.6 | 2.5  | 1.7   |       |       |       |       |       |       |       | 5.6        | 7.8          |
|                        |                     |     |      |       |       |       |       |       |       |       |       | 100.0      | 10.3         |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: G37460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .4                  | 1.8  | 2.1  | .6    |       |       |       |       |       |       |            | 4.9          | 7.1  |
| NNE                    |                     | 1.7  | 1.6  | .7    |       |       |       |       |       |       |            | 3.0          | 7.4  |
| NE                     | .1                  | 1.6  | 1.1  | 1.0   |       |       |       |       |       |       |            | 3.8          | 8.1  |
| ENE                    | .2                  | .4   | 1.1  | .4    | .1    |       |       |       |       |       |            | 2.3          | 8.2  |
| E                      | .4                  | .6   | .8   | 1.2   | .2    |       |       |       |       |       |            | 3.8          | 10.1 |
| ESE                    | .3                  | .4   | .3   | .8    |       |       |       |       |       |       |            | 1.9          | 8.5  |
| SE                     | .4                  | .9   | 1.1  | 1.1   | .2    |       |       |       |       |       |            | 2.7          | 10.5 |
| SSE                    | .3                  | .7   | 1.1  | 1.3   | .4    | .1    |       |       |       |       |            | 4.0          | 10.3 |
| S                      | .6                  | 1.2  | 3.0  | 3.8   | .8    | .1    |       |       |       |       |            | 9.6          | 10.8 |
| SSW                    | .7                  | 1.6  | 4.7  | 2.6   | 1.0   |       |       |       |       |       |            | 10.1         | 15.0 |
| SW                     | .3                  | .6   | 1.9  | 3.0   | 1.6   | .9    |       |       |       |       |            | 8.9          | 13.2 |
| WSW                    | .1                  | 1.1  | 1.7  | 3.1   |       |       |       |       |       |       |            | 6.0          | 9.7  |
| W                      | .1                  | 1.2  | 4.1  | 8.6   | 1.1   |       |       |       |       |       |            | 15.8         | 11.3 |
| WNW                    | .4                  | 1.1  | 2.6  | 3.3   | 1.0   |       |       |       |       |       |            | 8.5          | 10.8 |
| NW                     | .4                  | 2.1  | 2.9  | 1.2   | .4    | .1    |       |       |       |       |            | 7.2          | 8.7  |
| NNW                    | .3                  | 2.4  | 2.4  | 1.0   | .1    |       |       |       |       |       |            | 6.3          | 7.8  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | .3           | /    |
| TOTALS                 | 4.2                 | 15.0 | 29.1 | 37.2  | 8.6   | 2.1   |       |       |       |       |            | 100.0        | 10.5 |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: AUG HOURS(LST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .6                  | 4.1  | 1.9  | .8    |       |       |       |       |       |       |            | 7.4          | 6.5  |
| NNE                    | .4                  | .7   | .7   | .3    |       |       |       |       |       |       |            | 2.1          | 6.9  |
| NE                     | .1                  | .7   | 1.2  | 1.0   |       |       |       |       |       |       |            | 3.0          | 8.6  |
| ENE                    | .2                  | 1.2  | 1.1  | .1    |       |       |       |       |       |       |            | 2.7          | 6.7  |
| E                      | 1.0                 | 1.2  | 1.2  | .6    |       |       |       |       |       |       |            | 4.0          | 6.5  |
| ESE                    | .6                  | .4   | .9   | .7    |       |       |       |       |       |       |            | 2.2          | 6.8  |
| SE                     | .7                  | .4   | .6   | .6    | .1    |       |       |       |       |       |            | 2.3          | 7.3  |
| SSE                    | .1                  | .8   | 1.1  | .7    | .1    | .0    |       |       |       |       |            | 3.2          | 10.6 |
| S                      | .9                  | 3.2  | 5.7  | 2.0   | .4    | .1    |       |       |       |       |            | 12.4         | 8.3  |
| SSW                    | .1                  | 1.2  | 3.1  | 4.9   | 1.5   | .6    |       |       |       |       |            | 10.8         | 11.8 |
| SW                     | .1                  | 1.0  | 2.2  | 3.1   | .9    | .2    |       |       |       |       |            | 7.6          | 11.8 |
| WSW                    | 3.2                 | 3.9  | 1.1  |       |       |       |       |       |       |       |            | 9.3          | 7.7  |
| W                      | .7                  | 2.1  | 5.7  | 5.3   | .1    |       |       |       |       |       |            | 13.7         | 9.5  |
| WNW                    | .8                  | 3.1  | 3.0  | 2.6   | .1    |       |       |       |       |       |            | 9.6          | 8.1  |
| NW                     | .2                  | 2.1  | 1.8  | .9    | .2    | .1    |       |       |       |       |            | 5.4          | 8.3  |
| NNW                    | .8                  | 1.2  | .7   | .3    |       |       |       |       |       |       |            | 3.0          | 5.9  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 2.1          | /    |
| TOTALS                 | .6                  | 27.3 | 34.9 | 24.1  | 3.5   | 1.3   |       |       |       |       |            | 100.0        | 8.5  |

TOTAL NUMBER OF OBSERVATIONS: 895

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |     |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|-----|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |     |
| N                      | .9                  | 3.1  | 1.2  | .1    |       |       |       |       |       |       |            | 5.3          | 5.5 |
| NNE                    | .4                  | .7   | 1.2  | .1    |       |       |       |       |       |       |            | 2.4          | 6.5 |
| NE                     | .7                  | .9   | .7   | 1.1   |       |       |       |       |       |       |            | 2.8          | 8.7 |
| ENE                    | .4                  | .9   | .9   | .3    |       |       |       |       |       |       |            | 2.6          | 6.9 |
| E                      | 1.1                 | 1.0  | 1.4  | .8    |       |       |       |       |       |       |            | 5.1          | 6.5 |
| ESE                    | .4                  | .6   | .2   | .3    |       |       |       |       |       |       |            | 1.6          | 6.3 |
| SE                     | .3                  | .4   | .7   | .4    |       |       |       |       |       |       |            | 1.9          | 7.4 |
| SSE                    | .7                  | 1.0  | 1.4  | .1    |       |       |       |       |       |       |            | 3.2          | 6.5 |
| S                      | 1.2                 | 4.3  | 4.7  | 1.4   | .6    | .1    |       |       |       |       |            | 12.3         | 7.6 |
| SSW                    | .7                  | 1.9  | 2.3  | 2.7   | .4    | .2    |       |       |       |       |            | 8.4          | 9.6 |
| SW                     | .7                  | 1.4  | 4.3  | 1.4   | .2    | .4    |       |       |       |       |            | 8.9          | 9.1 |
| WSW                    | 1.0                 | 3.0  | 4.1  | .2    |       |       |       |       |       |       |            | 9.0          | 6.9 |
| W                      | 2.3                 | 4.0  | 3.9  | 1.7   |       |       |       |       |       |       |            | 11.9         | 6.5 |
| WNW                    | 3.4                 | 4.4  | 2.1  | .6    |       |       |       |       |       |       |            | 10.5         | 5.1 |
| NW                     | 1.9                 | 1.7  | 1.1  | .4    | .2    |       |       |       |       |       |            | 5.3          | 5.9 |
| NNW                    | .9                  | 1.8  | .7   |       |       |       |       |       |       |       |            | 3.3          | 4.9 |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |     |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 5.4          | /   |
| TOTALS                 | 16.6                | 31.7 | 31.0 | 12.9  | 1.6   | .8    |       |       |       |       |            | 100.0        | 6.6 |

TOTAL NUMBER OF OBSERVATIONS: 901

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC      FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: AUG HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | 1.0                 | 2.6  | 2.8  | .5    |       |       |       |       |       |       |            | 6.5          | 6.4  |
| NNE                    | .5                  | 1.1  | 1.2  | .5    |       |       |       |       |       |       |            | 3.3          | 7.0  |
| NE                     | .3                  | .8   | 1.0  | .9    | .0    |       |       |       |       |       |            | 2.8          | 8.1  |
| FNE                    | .6                  | .9   | 1.3  | .9    | .1    |       |       |       |       |       |            | 3.7          | 7.9  |
| E                      | 1.0                 | 1.5  | 1.8  | 1.0   | .1    |       |       |       |       |       |            | 5.0          | 7.3  |
| FSE                    | .6                  | .7   | .7   | .4    | .0    |       |       |       |       |       |            | 2.5          | 6.8  |
| SE                     | .5                  | .6   | .7   | .5    | .2    | .0    |       |       |       |       |            | 2.5          | 8.1  |
| ESF                    | .4                  | .4   | 1.0  | .6    | .1    | .1    | .1    | .0    |       |       |            | 3.0          | 8.2  |
| S                      | 1.1                 | 2.2  | 3.9  | 2.5   | .7    | .1    |       |       |       |       |            | 10.4         | 9.0  |
| SSW                    | .4                  | 1.0  | 2.4  | 3.4   | 1.3   | .5    |       |       |       |       |            | 9.1          | 11.9 |
| SW                     | .5                  | .7   | 2.4  | 2.5   | .9    | .3    | .0    |       |       |       |            | 7.4          | 11.1 |
| WSW                    | .6                  | 2.2  | 3.0  | 1.8   | .1    |       |       |       |       |       |            | 7.6          | 8.1  |
| W                      | 1.2                 | 3.0  | 3.8  | 3.5   | .3    | .0    |       |       |       |       |            | 11.8         | 8.5  |
| WNW                    | 2.1                 | 2.9  | 2.1  | 2.0   | .3    | .0    |       |       |       |       |            | 9.3          | 7.2  |
| NW                     | 1.6                 | 1.2  | 1.7  | .9    | .1    | .1    |       |       |       |       |            | 6.2          | 6.8  |
| NNW                    | .9                  | 1.0  | 1.5  | .7    | .0    |       |       |       |       |       |            | 4.8          | 6.7  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 4.1          | /    |
| TOTALS                 | 13.3                | 24.3 | 30.6 | 22.5  | 4.2   | 1.1   | .0    |       |       |       |            | 100.0        | 8.0  |

TOTAL NUMBER OF OBSERVATIONS: 7219

GLOBAL CLIMATOLOGY BRANCH                    PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                                        FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: SEP HOURS(LST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .9                  | 1.7  | .4   |       |       |       |       |       |       |       |            | 3.0          | 4.5  |
| NNE                    | .3                  | .6   | .9   |       |       |       |       |       |       |       |            | 2.0          | 6.2  |
| NE                     | .3                  | .4   | .7   | .1    |       |       |       |       |       |       |            | 2.0          | 5.3  |
| FNE                    | .4                  | 1.2  | 1.2  | .2    |       |       |       |       |       |       |            | 3.1          | 6.6  |
| E                      | .6                  | 1.1  | 2.1  | 1.0   |       |       |       |       |       |       |            | 4.8          | 7.8  |
| ESE                    | .3                  | .6   | 1.1  | .1    |       |       |       |       |       |       |            | 2.4          | 6.6  |
| SE                     | .9                  | 1.1  | 1.1  | .2    |       |       |       |       |       |       |            | 3.4          | 5.8  |
| SSE                    | 1.0                 | 1.0  | 1.5  | .3    |       |       |       |       |       |       |            | 3.8          | 6.1  |
| S                      | 1.0                 | 2.7  | 5.3  | 2.7   |       |       |       |       |       |       |            | 11.7         | 8.1  |
| SSW                    | .9                  | 1.0  | 2.9  | 3.6   | .8    | .2    |       |       |       |       |            | 9.4          | 10.5 |
| SW                     | .6                  | 1.7  | 4.0  | 2.2   | .6    |       | .1    |       |       |       |            | 8.8          | 9.7  |
| WSW                    | 1.6                 | 3.3  | 4.2  | 2.8   | .1    | .3    |       |       |       |       |            | 12.3         | 8.2  |
| W                      | 1.3                 | 2.7  | 1.8  | 2.4   | .1    |       |       |       |       |       |            | 7.6          | 7.9  |
| WNW                    | 2.4                 | 3.7  | 1.3  | 1.0   |       |       |       |       |       |       |            | 8.4          | 5.4  |
| NN                     | 3.0                 | 1.5  | 1.2  | .1    |       |       |       |       |       |       |            | 5.8          | 4.3  |
| NNW                    | 1.2                 | 1.1  | .8   |       |       |       |       |       |       |       |            | 3.1          | 4.8  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 8.1          | /    |
| TOTALS                 | 17.3                | 24.7 | 30.7 | 16.7  | 1.6   | .6    | .1    |       |       |       |            | 100.0        | 6.8  |

TOTAL NUMBER OF OBSERVATIONS: 889

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
USAFCETAC FROM HOURLY OBSERVATIONS  
AIR WEATHER SERVICE/HAC

| STATION NUMBER: 03746C STATION NAME: ROSCOMBE DOWN UK |                     |      |      |       |       |       |       |       |       |       | PERIOD OF RECORD: 77-86<br>MONTH: SEP HOURS(LST): 0300-0500 |            |              |
|---|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|---|------------|--------------|
| DIRECTION<br>(DEGREES)                                | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |   | TOTAL<br>% | MEAN<br>WIND |
|   | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | 6E 56   |            |              |
| N   | 1.5                 | 1.8  | 1.1  | .2    |       |       |       |       |       |       |   | 4.6        | 5.5          |
| NNW   | .6                  | .2   | .9   | .1    |       |       |       |       |       |       |   | 1.8        | 6.1          |
| NE  | .6                  | .4   | .2   |       |       |       |       |       |       |       |   | 1.2        | 4.5          |
| ENE   | .9                  | .7   | 1.1  | .3    |       |       |       |       |       |       |   | 3.5        | 7.1          |
| E   | .8                  | 1.2  | 3.5  | .9    |       |       |       |       |       |       |   | 6.4        | 7.7          |
| ESE   | .9                  | 1.1  | .7   | .9    |       |       |       |       |       |       |   | 3.0        | 6.1          |
| SE  | .6                  | .8   | 1.3  | .7    |       |       |       |       |       |       |   | 3.4        | 7.5          |
| SSE   | .7                  | 1.6  | 1.8  | .2    | .1    |       |       |       |       |       |   | 5.1        | 7.6          |
| S   | 1.2                 | 2.6  | 5.3  | 1.6   | .4    |       |       |       |       |       |   | 11.1       | 9.2          |
| SSW   | .9                  | 1.3  | 3.1  | 2.6   | .6    | .3    |       |       |       |       |   | 8.9        | 9.8          |
| SW  | .9                  | .9   | 3.5  | 2.5   | .6    |       |       |       |       |       |   | 8.3        | 9.2          |
| WSW   | 1.1                 | 2.8  | 4.0  | 3.7   | .1    | .1    |       |       |       |       |   | 11.5       | 8.7          |
| W   | 2.1                 | 2.4  | 1.5  | 2.4   | .2    | .1    |       |       |       |       |   | 8.7        | 7.6          |
| WNW   | 2.8                 | 2.1  | .8   | 1.0   |       |       |       |       |       |       |   | 6.7        | 5.4          |
| NW  | 3.0                 | .7   | .9   | .4    |       |       |       |       |       |       |   | 5.3        | 4.5          |
| NNW   | 1.6                 | .7   | .3   |       |       |       |       |       |       |       |   | 2.6        | 3.6          |
| VARIABLE  |                     |      |      |       |       |       |       |       |       |       |   |            |              |
| CALM  | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /   | 8.0        | 7.7          |
| TOTALS  | 20.0                | 21.6 | 30.1 | 17.2  | 2.0   | .6    |       |       |       |       |   | 100.0      | 6.9          |

TOTAL NUMBER OF OBSERVATIONS: 890

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .6                  | 1.2  | 1.5  | .5    |       |       |       |       |       |       | 3.7        | 6.9          |
| NNE                    | .3                  | .6   | 1.6  | .2    |       |       |       |       |       |       | 2.7        | 7.3          |
| NE                     | 1.5                 | .6   | .3   | .1    |       |       |       |       |       |       | 2.4        | 4.1          |
| ENE                    | 1.0                 | .3   | 1.6  | 1.2   |       |       |       |       |       |       | 4.2        | 7.8          |
| E                      | 1.7                 | .8   | 2.4  | 1.1   |       |       |       |       |       |       | 6.0        | 6.8          |
| ESE                    | .8                  | .6   | 1.2  | .5    |       |       |       |       |       |       | 3.1        | 6.4          |
| SE                     | .6                  | 1.2  | 1.2  | 1.0   |       |       |       |       |       |       | 4.1        | 7.5          |
| SSE                    | .8                  | 1.1  | 1.6  | .9    | .3    | .2    |       |       |       |       | 5.0        | 8.8          |
| S                      | 1.1                 | 2.3  | 4.2  | 1.2   | .7    | .2    |       |       |       |       | 9.5        | 8.6          |
| SSW                    | .8                  | 1.7  | 2.0  | 3.2   | .8    | .1    |       |       |       |       | 8.8        | 10.2         |
| SW                     | 1.0                 | 2.1  | 2.8  | 2.6   | .3    |       |       |       |       |       | 8.9        | 8.6          |
| WSW                    | .8                  | 2.7  | 3.2  | 3.1   | .1    |       |       |       |       |       | 9.8        | 8.4          |
| W                      | 2.0                 | 1.9  | 2.1  | 3.6   | .9    | .1    |       |       |       |       | 10.3       | 9.6          |
| NNW                    | 2.9                 | 1.8  | .1   | 1.4   | .1    |       |       |       |       |       | 6.2        | 5.8          |
| Nw                     | 3.7                 | .6   | .9   | .2    |       |       |       |       |       |       | 5.7        | 3.8          |
| NNW                    | 1.0                 | 1.1  | .7   | .1    |       |       |       |       |       |       | 2.9        | 5.2          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 6.7        | /            |
| TOTALS                 | 20.6                | 20.4 | 27.5 | 20.9  | 3.3   | .7    |       |       |       |       | 100.0      | 7.3          |

TOTAL NUMBER OF OBSERVATIONS: 584

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .1                  | 1.7  | .8   | .9    |       |       |       |       |       |       |            | 3.4          | 7.8  |
| NNE                    | .2                  | .7   | .7   | 1.3   |       |       |       |       |       |       |            | 2.6          | 8.6  |
| NE                     | .4                  | .4   | 1.1  | .7    |       |       |       |       |       |       |            | 2.9          | 8.2  |
| ENE                    | .1                  | .6   | 1.5  | .9    | .4    |       |       |       |       |       |            | 3.4          | 9.9  |
| E                      | 1.0                 | 1.2  | 2.0  | 1.6   |       |       |       |       |       |       |            | 5.8          | 8.0  |
| ESE                    | .6                  | .8   | 1.1  | .8    |       |       |       |       |       |       |            | 3.3          | 7.9  |
| SE                     | .7                  | .8   | .9   | .6    |       |       |       |       |       |       |            | 2.9          | 7.1  |
| SSE                    | .9                  | 1.3  | 1.8  | 1.5   | .4    | .1    |       |       |       |       |            | 6.1          | 8.7  |
| S                      | .7                  | 1.2  | 3.1  | 3.5   | 1.1   | .6    |       |       |       |       |            | 10.2         | 11.4 |
| SSW                    | .6                  | .5   | 3.0  | 5.2   | 1.1   | .2    |       |       |       |       |            | 10.4         | 11.6 |
| SW                     | .4                  | .2   | 1.8  | 2.6   | 1.0   | .1    |       |       |       |       |            | 6.2          | 11.5 |
| WSW                    | .2                  | 1.0  | 2.8  | 5.8   | .2    |       |       |       |       |       |            | 10.1         | 10.6 |
| W                      | 1.0                 | 1.1  | 3.5  | 6.7   | 1.7   | .4    |       |       |       |       |            | 14.5         | 11.7 |
| NNW                    | 1.1                 | 1.0  | 1.6  | 2.5   | 1.2   | .2    |       |       |       |       |            | 8.2          | 10.3 |
| NW                     | .7                  | .9   | .7   | .7    | .3    |       |       |       |       |       |            | 3.3          | 8.5  |
| NNW                    | 1.0                 | 1.1  | 1.7  | 1.7   | .1    |       |       |       |       |       |            | 5.3          | 7.8  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 1.5          | /    |
| TOTALS                 | 9.8                 | 14.9 | 28.1 | 36.3  | 7.6   | 1.8   |       |       |       |       |            | 100.0        | 9.9  |

TOTAL NUMBER OF OBSERVATIONS: 890

GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
USAFCETAC FROM HOURLY OBSERVATIONS  
AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: ROSSOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .6                  | 1.0  | 1.1  | .8    | .2    |       |       |       |       |       |       | 4.6        | 7.6          |
| NNE                    | .1                  | .5   | .7   | 1.0   |       |       |       |       |       |       |       | 2.3        | 9.0          |
| NE                     | .1                  | .6   | .7   | 1.2   |       |       |       |       |       |       |       | 2.6        | 9.8          |
| ENE                    | .2                  | .5   | 1.4  | .5    | .2    |       |       |       |       |       |       | 2.7        | 9.2          |
| E                      | .6                  | .6   | .8   | .6    | .1    |       |       |       |       |       |       | 2.6        | 8.0          |
| ESE                    | .1                  | .6   | 1.2  | 1.1   |       |       |       |       |       |       |       | 3.0        | 9.2          |
| SE                     | .3                  | .9   | .7   | 1.1   |       |       |       |       |       |       |       | 2.9        | 8.3          |
| SSE                    | .7                  | .9   | 1.6  | 1.5   | .5    | .1    |       |       |       |       |       | 5.2        | 9.4          |
| S                      | .6                  | 1.1  | 2.8  | 6.2   | .5    | .1    |       |       |       |       |       | 11.3       | 10.9         |
| SSW                    | .3                  | .5   | 1.6  | 5.5   | 1.9   | .9    | .3    |       |       |       |       | 11.2       | 14.2         |
| SW                     | .6                  | .7   | .8   | 5.0   | 1.1   | .3    | .1    |       |       |       |       | 8.6        | 12.9         |
| WSW                    |                     | 1.5  | 2.1  | 5.2   | .3    |       |       |       |       |       |       | 9.1        | 10.6         |
| W                      | .3                  | .9   | 3.0  | 7.1   | 4.1   | 1.0   |       |       |       |       |       | 16.5       | 13.8         |
| NNW                    | .2                  | 1.0  | 1.5  | 2.8   | 1.6   | .2    |       |       |       |       |       | 7.3        | 12.8         |
| NW                     | .3                  | 2.0  | 1.7  | 2.1   | .3    |       |       |       |       |       |       | 6.5        | 9.1          |
| NNW                    | .2                  | 1.0  | 1.4  | .7    | .1    |       |       |       |       |       |       | 3.4        | 8.2          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | .2         | /            |
| TOTALS                 | 5.3                 | 15.0 | 23.0 | 42.4  | 10.9  | 2.7   | .5    |       |       |       |       | 100.0      | 11.2         |

TOTAL NUMBER OF OBSERVATIONS: 887

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |           |           |           |           |           |           |           |           |           |           | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|--------------|
|                        | 1-3                 | 4-6       | 7-10      | 11-16     | 17-21     | 22-27     | 28-33     | 34-40     | 41-47     | 48-55     | GE 56     |            |              |
| N                      | .3                  | 1.3       | 2.0       | .9        | .1        |           |           |           |           |           |           | 4.7        | 8.3          |
| NNE                    | .1                  | .4        | .9        | 1.0       |           |           |           |           |           |           |           | 2.5        | 8.8          |
| NE                     |                     | .2        | .7        | .9        |           |           |           |           |           |           |           | 2.4        | 9.0          |
| FNE                    | .2                  | .3        | 1.2       | .4        |           |           |           |           |           |           |           | 2.1        | 8.5          |
| E                      | .6                  | .3        | .6        | .1        | .2        |           |           |           |           |           |           | 1.8        | 7.2          |
| FSE                    | .6                  | .5        | .6        | .9        |           |           |           |           |           |           |           | 2.6        | 8.0          |
| SE                     | .6                  | .3        | 1.5       | 1.1       | .1        |           |           |           |           |           |           | 3.9        | 9.1          |
| SSF                    | .1                  | .9        | 2.1       | 1.3       | .1        | .2        |           |           |           |           |           | 4.8        | 10.1         |
| S                      | .8                  | .6        | 4.3       | 4.9       | .4        | .2        | .1        |           |           |           |           | 11.4       | 10.5         |
| SSW                    | .1                  | .7        | 2.0       | 5.7       | 3.0       | .4        | .2        |           |           |           |           | 12.2       | 14.1         |
| SW                     | .1                  | .3        | 1.1       | 3.7       | 1.3       | .2        |           | .1        |           |           |           | 7.0        | 13.6         |
| WSW                    | .1                  | 1.7       | 2.2       | 2.6       | .2        |           |           |           |           |           |           | 6.8        | 9.4          |
| W                      | .8                  | 2.4       | 4.4       | 8.0       | 3.3       | .3        |           |           |           |           |           | 19.1       | 11.7         |
| WNW                    | .2                  | 1.6       | 2.6       | 3.6       | 1.6       | .1        |           |           |           |           |           | 9.7        | 11.1         |
| NW                     |                     | .8        | 2.0       | 1.6       | .4        |           |           |           |           |           |           | 4.8        | 10.4         |
| NNW                    | .3                  | 1.5       | 1.1       | .3        | .1        |           |           |           |           |           |           | 3.4        | 7.4          |
| VARIABLE               |                     |           |           |           |           |           |           |           |           |           |           | .9         | / / / / /    |
| CALM                   | / / / / /           | / / / / / | / / / / / | / / / / / | / / / / / | / / / / / | / / / / / | / / / / / | / / / / / | / / / / / | / / / / / |            |              |
| TOTALS                 | 4.9                 | 14.7      | 29.2      | 37.1      | 11.0      | 1.6       | .3        | .1        |           |           |           | 100.0      | 10.8         |

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
 MONTH: SEP      HOURS(LST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .6                  | 2.3  | 1.3  | .2    |       |       |       |       |       |       |            | 4.9          | 5.8  |
| NNE                    | .3                  | .2   | 1.3  |       |       |       |       |       |       |       |            | 2.6          | 6.5  |
| NE                     | .3                  | .2   | 1.2  | .4    |       |       |       |       |       |       |            | 2.9          | 7.3  |
| ENE                    | .2                  | .2   | 1.0  | .1    |       |       |       |       |       |       |            | 1.7          | 7.1  |
| E                      | .4                  | .4   | .7   | .7    |       |       |       |       |       |       |            | 2.4          | 7.2  |
| ESE                    | .9                  | .9   | 1.3  | .7    |       |       |       |       |       |       |            | 3.7          | 7.0  |
| SE                     | .7                  | .8   | 1.2  | .6    |       |       |       |       |       |       |            | 3.7          | 6.8  |
| SSE                    | .6                  | 1.0  | 1.3  | .9    |       |       |       |       |       |       |            | 4.4          | 8.1  |
| S                      | .9                  | 3.4  | 5.8  | 2.6   | .7    | .1    |       |       |       |       |            | 13.0         | 8.9  |
| SSW                    | .3                  | 1.1  | 4.2  | 3.9   | 1.3   |       |       |       |       |       |            | 11.1         | 11.4 |
| SW                     | .8                  | .7   | 2.8  | 3.4   | .6    | .1    | .1    |       |       |       |            | 8.0          | 11.1 |
| WSW                    | .4                  | 1.8  | 3.1  | 1.0   | .1    |       |       |       |       |       |            | 6.5          | 7.9  |
| -                      | .6                  | 4.0  | 6.3  | 6.4   | .7    |       |       |       |       |       |            | 18.0         | 9.3  |
| NNW                    | 1.1                 | 2.0  | 2.5  | 1.5   | .1    |       |       |       |       |       |            | 8.1          | 7.7  |
| NW                     | .6                  | 2.2  | .7   | 1.1   |       |       |       |       |       |       |            | 4.5          | 7.1  |
| NNW                    | .3                  | .9   | .7   | .5    |       |       |       |       |       |       |            | 2.4          | 7.3  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 2.5          | /    |
| TOTALS                 | 8.4                 | 25.2 | 35.7 | 24.1  | 3.5   | .2    | .4    |       |       |       |            | 100.0        | 9.4  |

TOTAL NUMBER OF OBSERVATIONS: 889

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AF WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: SEP HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL % | MEAN WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|---------|-----------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56   |           |
| N                      | 1.1                 | 1.0  | .9   | .1    |       |       |       |       |       |       |         | 3.4 5.1   |
| NNE                    | .5                  | .5   | 1.7  |       |       |       |       |       |       |       |         | 2.7 6.7   |
| NE                     | .6                  | .6   | .9   | .3    |       |       |       |       |       |       |         | 2.6 6.7   |
| FNE                    | .6                  | .6   | .6   | .3    |       |       |       |       |       |       |         | 2.0 6.4   |
| E                      | .9                  | .9   | 1.6  | .6    |       |       |       |       |       |       |         | 4.7 6.6   |
| ESE                    | .2                  | .2   | 1.2  | .7    |       |       |       |       |       |       |         | 3.1 7.7   |
| SE                     | .3                  | 1.2  | 1.4  | .1    |       |       |       |       |       |       |         | 3.1 6.1   |
| SSE                    | .6                  | 1.7  | .7   | .9    | .1    |       |       |       |       |       |         | 3.9 7.3   |
| S                      | .9                  | 3.5  | 4.4  | 1.6   | .2    |       |       |       |       |       |         | 10.7 7.6  |
| SSW                    | .9                  | 1.1  | 3.6  | 3.5   | 1.0   | .2    | .2    |       |       |       |         | 10.6 10.7 |
| SW                     | .7                  | .7   | 3.4  | 3.3   | .1    | .2    | .1    |       |       |       |         | 8.7 10.4  |
| WSW                    | 1.4                 | 2.7  | 5.3  | 2.4   |       | .1    |       |       |       |       |         | 11.9 8.0  |
| -                      | 1.8                 | 2.0  | 3.7  | 2.0   |       |       |       |       |       |       |         | 10.4 7.3  |
| NNW                    | 2.8                 | 4.2  | 2.4  | 1.4   |       |       |       |       |       |       |         | 11.4 5.9  |
| NW                     | 1.4                 | 2.3  | .5   | .5    |       |       |       |       |       |       |         | 4.5 5.3   |
| NNW                    | .8                  | .7   | .7   | .7    |       |       |       |       |       |       |         | 2.4 5.8   |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |         |           |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /       | 4.7 //    |
| TOTALS                 | 15.5                | 26.2 | 32.9 | 17.7  | 1.5   | .6    | .3    |       |       |       |         | 100.0 7.2 |

TOTAL NUMBER OF OBSERVATIONS: 885

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BO'COMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: SEP    HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |     |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|-----|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |     |
| N                      | .7                  | 1.7  | 1.2  | .4    | .0    |       |       |       |       |       |            | 4.1          | 6.5 |
| NNE                    | .3                  | .6   | 1.1  | .4    |       |       |       |       |       |       |            | 2.4          | 7.4 |
| NE                     | .5                  | .6   | .7   | .5    |       |       |       |       |       |       |            | 2.4          | 7.1 |
| ENE                    | .5                  | .6   | 1.2  | .5    | .1    |       |       |       |       |       |            | 2.8          | 7.9 |
| E                      | .8                  | .7   | 1.7  | .9    | .0    |       |       |       |       |       |            | 4.2          | 7.4 |
| ESE                    | .5                  | .4   | 1.1  | .6    |       |       |       |       |       |       |            | 3.0          | 7.4 |
| SE                     | .6                  | .9   | 1.2  | .7    | .0    |       |       |       |       |       |            | 3.3          | 7.1 |
| SSE                    | .7                  | 1.7  | 1.5  | 1.0   | .2    | .1    | .0    |       |       |       |            | 4.8          | 7.4 |
| S                      | .8                  | 2.2  | 4.4  | 3.0   | .5    | .7    | .0    |       |       |       |            | 11.1         | 7.7 |
| SSW                    | .6                  | 1.7  | 2.8  | 4.2   | 1.3   | .3    | .1    |       |       |       |            | 10.3         | 7.7 |
| SW                     | .6                  | .9   | 2.5  | 3.2   | .7    | .1    | .1    | .0    |       |       |            | 8.7          | 7.7 |
| WSW                    | .7                  | 2.2  | 3.4  | 3.7   | .2    | .1    |       |       |       |       |            | 1.1          | 7.7 |
| W                      | 1.3                 | 2.1  | 3.3  | 4.0   | 1.4   | .3    |       |       |       |       |            | 1.1          | 7.7 |
| WNW                    | 1.7                 | 2.4  | 1.6  | 1.2   | .6    | .1    |       |       |       |       |            | 1.1          | 7.7 |
| NNW                    | 1.6                 | 1.9  | 1.1  | .9    | .1    |       |       |       |       |       |            | 1.1          | 7.7 |
| NNW                    | .8                  | 1.7  | .9   | .4    | .0    | .0    |       |       |       |       |            | 1.1          | 7.7 |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |     |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            |              |     |
| TOTALS                 | 12.7                | 20.4 | 29.6 | 26.7  | 5.2   | 1.1   | .2    | .1    | .0    | .0    |            |              |     |

TOTAL NUMBER OF OBSERVATIONS: 7105

AD-A183 387

BOSCOMB DOWN UNITED KINGDOM LIMITED SURFACE  
OBSERVATIONS CLIMATIC SUMMER (U) AIR FORCE  
ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT A..  
UNCLASSIFIED 06 JUL 87 USAFEIAC/DS-87/048

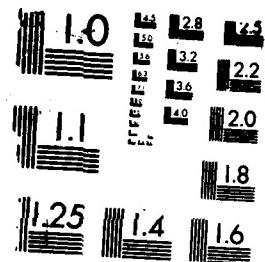
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MICROCOPY RESOLUTION TEST CHART

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |         |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|---------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |         |
| N                      | .8                  | 1.1  | 1.0  | .8    | .1    |       |       |       |       |       |            | 3.7          | 7.1     |
| NNE                    | .2                  | .5   | .7   | .2    |       |       |       |       |       |       |            | 1.6          | 7.1     |
| NE                     | .7                  | .7   | 1.3  | .2    | .2    |       |       |       |       |       |            | 3.1          | 7.9     |
| ENE                    | 1.1                 | .4   | 2.3  | .9    |       |       |       |       |       |       |            | 4.7          | 7.4     |
| E                      | .9                  | 1.7  | 4.3  | 1.3   |       |       |       |       |       |       |            | 8.2          | 8.0     |
| ESE                    | .7                  | .7   | 1.1  |       |       |       |       |       |       |       |            | 2.4          | 5.5     |
| SE                     | .3                  | 2.0  | 2.6  | .7    | .3    |       |       |       |       |       |            | 5.9          | 8.3     |
| SSE                    | 1.0                 | 1.5  | 1.7  | 1.0   |       |       |       |       |       |       |            | 5.2          | 6.9     |
| S                      | 1.0                 | 2.0  | 4.0  | 2.7   | 1.1   | 1.0   |       |       |       |       |            | 11.7         | 10.6    |
| SSW                    | .4                  | 1.1  | 2.7  | 3.1   | 1.4   | .2    |       |       |       |       |            | 9.0          | 11.4    |
| SW                     | .2                  | 1.3  | 3.0  | 2.9   | .7    | .1    |       |       |       |       |            | 8.2          | 10.6    |
| WSW                    | 1.0                 | 1.1  | 2.4  | 3.6   | .1    |       |       |       |       |       |            | 8.1          | 9.4     |
| W                      | .9                  | 1.6  | 2.1  | 3.3   | .5    |       |       |       |       |       |            | 8.9          | 9.7     |
| VNW                    | 2.1                 | 2.0  | .9   | 1.1   |       |       |       |       |       |       |            | 6.0          | 6.1     |
| NW                     | 2.3                 | 1.3  | .9   | .4    |       |       |       |       |       |       |            | 4.9          | 4.8     |
| NNW                    | .9                  | .9   | .7   | .3    |       |       |       |       |       |       |            | 2.7          | 5.5     |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |         |
| CALM                   | / / / / / / / / / / |      |      |       |       |       |       |       |       |       |            | 5.7          | / / / / |
| TOTALS                 | 14.2                | 19.7 | 31.5 | 23.0  | 4.4   | 1.4   |       |       |       |       |            | 100.0        | 8.1     |

TOTAL NUMBER OF OBSERVATIONS: 923

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |        |        |        |        |        |        |        |        |        | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|--------------|
|                        | 1-3                 | 4-6    | 7-10   | 11-16  | 17-21  | 22-27  | 28-33  | 34-40  | 41-47  | 48-55  |            |              |
| N                      | .9                  | 1.6    | 1.2    | .8     | .2     |        |        |        |        |        | 4.7        | 7.5          |
| NE                     | .2                  | .4     | .1     | .3     |        |        |        |        |        |        | 1.1        | 6.7          |
| ENE                    | .5                  | 1.0    | .6     | .4     | .1     | .2     |        |        |        |        | 2.9        | 8.3          |
| E                      | .4                  | .8     | 1.7    | 1.1    |        |        |        |        |        |        | 4.0        | 8.4          |
| ESE                    | .2                  | 1.1    | 1.1    | .1     |        |        |        |        |        |        | 9.1        | 8.6          |
| SE                     | 1.0                 | 1.9    | 1.7    | 1.1    | .2     |        |        |        |        |        | 2.5        | 6.8          |
| SSE                    | .6                  | 1.5    | 1.5    | .8     | .2     |        |        |        |        |        | 4.7        | 7.9          |
| S                      | 1.6                 | 1.9    | 4.2    | 2.9    | 1.1    | .6     | .1     |        |        |        | 12.4       | 10.1         |
| SSW                    | .2                  | 1.5    | 2.5    | 3.2    | 1.7    | .5     |        |        |        |        | 9.7        | 12.0         |
| SW                     | .1                  | 1.0    | 2.7    | 2.2    | 1.0    |        |        |        |        |        | 6.9        | 10.9         |
| WSW                    | .6                  | 1.3    | 1.8    | 2.8    |        |        |        |        |        |        | 6.6        | 9.1          |
| W                      | 1.3                 | 1.6    | 2.1    | 3.6    | .5     |        |        |        |        |        | 9.1        | 9.2          |
| WNW                    | 2.2                 | 2.5    | 1.0    | 1.5    | .3     |        |        |        |        |        | 7.5        | 6.8          |
| NW                     | 1.7                 | 1.5    | .5     | .6     |        |        |        |        |        |        | 4.4        | 5.2          |
| NNW                    | .9                  | .6     | .4     | .8     |        |        |        |        |        |        | 2.7        | 7.0          |
| VARIABLE               |                     |        |        |        |        |        |        |        |        |        | 5.7        | //////       |
| CALM                   | //////              | ////// | ////// | ////// | ////// | ////// | ////// | ////// | ////// | ////// | 100.0      | 8.3          |
| TOTALS                 | 13.0                | 22.2   | 27.7   | 24.4   | 5.5    | 1.4    | .1     |        |        |        |            |              |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | 1.0                 | 1.0  | .8   | .9    |       |       |       |       |       |       | 3.6        | 7.1          |
| NNE                    | .6                  | .5   | .5   | .3    |       |       |       |       |       |       | 2.1        | 6.5          |
| NE                     | .8                  | .3   | .8   | .1    | .1    |       |       |       |       |       | 2.1        | 6.3          |
| ENE                    | 1.2                 | .8   | 2.4  | 1.2   |       |       |       |       |       |       | 5.5        | 7.5          |
| E                      | 1.6                 | 1.7  | 4.9  | 1.5   | .2    |       |       |       |       |       | 9.9        | 7.7          |
| ESE                    | .3                  | 1.3  | 1.1  | .8    |       |       |       |       |       |       | 3.5        | 7.5          |
| SE                     | .1                  | .8   | 2.2  | .7    |       |       |       |       |       |       | 3.4        | 7.8          |
| SSE                    | .5                  | 1.0  | 1.5  | 1.2   | .5    | .1    |       |       |       |       | 4.9        | 9.5          |
| S                      | .9                  | 2.7  | 4.0  | 3.1   | .9    | .3    | .1    |       |       |       | 11.6       | 10.0         |
| SSW                    | .3                  | 1.6  | 2.7  | 2.4   | 2.4   | .5    |       |       |       |       | 9.9        | 12.0         |
| SW                     | .3                  | .5   | 3.2  | 2.4   | 1.2   | .2    |       |       |       |       | 7.9        | 11.2         |
| WSW                    | .9                  | 1.7  | 2.4  | 2.4   | .1    |       |       |       |       |       | 7.5        | 8.6          |
| W                      | 2.1                 | 1.0  | 3.2  | 2.4   | .5    |       |       |       |       |       | 9.2        | 8.6          |
| NNW                    | 1.6                 | 1.7  | 1.2  | 1.1   |       |       |       |       |       |       | 5.6        | 6.3          |
| NW                     | 3.0                 | 1.3  | .8   | .1    |       |       |       |       |       |       | 5.4        | 4.1          |
| NNW                    | 1.1                 | 1.2  | .9   | 1.1   | .1    | .1    |       |       |       |       | 4.4        | 7.7          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 3.7        | /            |
| TOTALS                 | 36.3                | 18.7 | 32.4 | 21.4  | 6.1   | 1.3   | .1    |       |       |       | 100.0      | 8.3          |

TOTAL NUMBER OF OBSERVATIONS: 925

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: OCT HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | >56        |              |      |
| N                      | .8                  | .8   | 1.5  | .8    | .1    |       |       |       |       |       |            | 3.9          | 8.1  |
| NNE                    | .2                  | .7   | 1.1  | .1    |       |       |       |       |       |       |            | 2.1          | 7.1  |
| NE                     | .2                  | 1.1  | 1.0  | .5    |       |       |       |       |       |       |            | 2.8          | 7.6  |
| ENE                    | .7                  | .4   | 1.8  | 1.3   |       |       |       |       |       |       |            | 4.2          | 8.6  |
| E                      | .5                  | 1.0  | 2.4  | 2.6   | .5    | .1    |       |       |       |       |            | 7.2          | 10.3 |
| ESE                    | .7                  | .9   | 1.7  | 1.3   | .4    |       |       |       |       |       |            | 5.0          | 9.0  |
| SE                     | .2                  | .9   | .9   | 1.0   | .8    |       |       |       |       |       |            | 3.6          | 10.7 |
| SSE                    | .4                  | .9   | 2.3  | 1.1   | .3    | .2    |       |       |       |       |            | 5.2          | 9.5  |
| S                      | 1.7                 | 2.4  | 3.1  | 4.3   | 1.2   | .3    | .2    |       |       |       |            | 13.3         | 10.3 |
| SSW                    | .3                  | .7   | 2.4  | 3.4   | 2.2   | .9    |       |       |       |       |            | 9.8          | 13.7 |
| SW                     | .5                  | .5   | 2.0  | 3.3   | 1.3   |       |       |       |       |       |            | 7.7          | 11.9 |
| WSW                    | .3                  | .5   | 2.7  | 4.1   | .3    |       |       |       |       |       |            | 8.0          | 10.7 |
| W                      | 1.2                 | .9   | 2.9  | 4.2   | 1.2   | .3    | .1    |       |       |       |            | 10.8         | 11.0 |
| NNW                    | 1.4                 | .7   | 1.0  | 2.4   | .4    | .2    | .1    |       |       |       |            | 6.2          | 9.8  |
| NW                     | 1.0                 | .7   | 1.0  | 1.4   | .1    |       |       |       |       |       |            | 4.1          | 8.2  |
| NNW                    | .7                  | 1.2  | 1.0  | 1.2   | .9    |       |       |       |       |       |            | 4.4          | 8.9  |
| <b>VARIABLE</b>        |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | //////////          |      |      |       |       |       |       |       |       |       | 1.7        | //////       |      |
| TOTALS                 | 10.8                | 13.9 | 28.7 | 32.9  | 9.3   | 2.1   | .5    |       |       |       | 100.0      | 10.1         |      |

TOTAL NUMBER OF OBSERVATIONS: 923

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                          FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: OCT HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | 1.1                 | .9   | .9   | 1.5   | .2    |       |       |       |       |       |            | 4.6          | 8.0  |
| NNE                    | .2                  | 1.0  | 1.2  | .1    |       |       |       |       |       |       |            | 2.5          | 6.9  |
| NE                     | .3                  | .8   | .7   | 1.2   | .1    |       |       |       |       |       |            | 3.0          | 8.8  |
| ENE                    | .3                  | .8   | 1.1  | .9    | .2    |       |       |       |       |       |            | 3.3          | 9.9  |
| E                      | .5                  | .8   | 1.6  | 2.4   | .4    |       |       |       |       |       |            | 5.8          | 10.4 |
| ESE                    | .1                  | .1   | .8   | 1.8   | .3    | .1    |       |       |       |       |            | 3.3          | 12.4 |
| SE                     | .5                  | .5   | 2.6  | 1.5   | 1.0   |       |       |       |       |       |            | 6.2          | 10.1 |
| SSE                    | .2                  | 1.5  | 1.6  |       | .1    |       |       |       |       |       |            | 3.5          | 10.6 |
| S                      | .4                  | .8   | 2.6  | 5.3   | 2.5   | .9    | .1    |       |       |       |            | 12.3         | 13.3 |
| SSW                    | .8                  | .7   | 1.8  | 4.8   | 2.3   | 1.2   |       | .2    |       |       |            | 11.4         | 14.3 |
| SW                     | .3                  | .7   | .3   | 3.6   | 1.3   | .7    | .1    |       |       |       |            | 7.0          | 14.3 |
| WSW                    | .2                  | .4   | 3.5  | 5.0   | .4    | .1    |       |       |       |       |            | 9.7          | 11.2 |
| W                      | .3                  | 1.6  | 2.5  | 6.5   | .8    | .8    |       |       |       |       |            | 12.5         | 12.0 |
| WNW                    | .5                  | .2   | 1.4  | 2.5   | .4    | .4    | .1    |       |       |       |            | 6.0          | 11.6 |
| NW                     | .1                  | 1.3  | .7   | 1.4   |       |       |       |       |       |       |            | 3.5          | 8.8  |
| NNW                    | .2                  | .7   | 1.6  | 2.0   | .5    | .1    |       |       |       |       |            | 5.1          | 10.9 |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | .4           | 11.1 |
| TOTALS                 | 6.1                 | 11.0 | 24.8 | 42.2  | 10.6  | 8.4   | .3    | .2    |       |       |            | 100.0        | 11.5 |

TOTAL NUMBER OF OBSERVATIONS: 919

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: OCT      HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .4                  | 2.4  | 1.4  | 1.3   | .2    |       |       |       |       |       |            | 5.8          | 8.0  |
| NNE                    | .4                  | 1.3  | 1.1  |       |       |       |       |       |       |       |            | 2.8          | 6.2  |
| NE                     | .5                  | .9   | 1.3  | .3    |       |       |       |       |       |       |            | 2.8          | 6.5  |
| ENF                    | .4                  | .5   | 1.1  | .3    | .4    |       |       |       |       |       |            | 2.8          | 8.7  |
| E                      | .3                  | 1.2  | 1.6  | 1.9   | .2    |       |       |       |       |       |            | 4.8          | 9.2  |
| ESE                    | .3                  | .1   | 1.3  | 1.4   | .7    |       |       |       |       |       |            | 3.8          | 11.6 |
| SE                     | .3                  | .0   | 2.4  | 1.6   | .2    |       |       |       |       |       |            | 5.3          | 9.5  |
| SSE                    | .5                  | .7   | 1.6  | .5    | .1    |       |       |       |       |       |            | 3.5          | 7.8  |
| S                      | 1.0                 | 1.3  | 3.3  | 5.8   | 2.3   | .4    |       |       |       |       |            | 14.0         | 11.7 |
| SSW                    | .4                  | .5   | 1.8  | 6.4   | 1.8   | .5    |       |       |       |       |            | 11.6         | 13.0 |
| SW                     | .4                  | .7   | 1.4  | 2.8   | 1.2   | .4    |       |       |       |       |            | 7.0          | 12.5 |
| WSW                    | .1                  | 1.7  | 2.5  | 3.5   | .5    |       |       |       |       |       |            | 8.4          | 10.2 |
| W                      | .1                  | 2.0  | 3.8  | 5.8   | 1.1   | .4    |       |       |       |       |            | 13.2         | 11.3 |
| WNW                    | .5                  | 1.3  | 1.5  | 1.7   | .2    | .3    |       |       |       |       |            | 5.7          | 9.6  |
| NW                     | .5                  | 1.1  | 2.0  | .9    | .1    |       |       |       |       |       |            | 4.5          | 7.8  |
| NNW                    | .2                  | 1.6  | 1.0  | .5    | .2    |       |       |       |       |       |            | 3.6          | 8.2  |
| <hr/>                  |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | .4           | /    |
| TOTALS                 | 6.7                 | 18.1 | 29.2 | 34.1  | 9.4   | 2.2   |       |       |       |       |            | 100.0        | 10.3 |

TOTAL NUMBER OF OBSERVATIONS: 919

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | PERIOD OF RECORD: 77-86<br>MONTH: OCT HOURS(LST): 1800-2000 |         |           |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|---|---------|-----------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56   | TOTAL % | MEAN WIND |
| N                      | .6                  | 2.1  | .9   | .9    |       |       |       |       |       |       |   | 4.3     | 6.5       |
| NNE                    | .9                  | 1.3  | .8   | .2    |       |       |       |       |       |       |   | 3.0     | 5.7       |
| NE                     | .4                  | .3   | 1.5  | .3    |       |       |       |       |       |       |   | 2.6     | 7.3       |
| ENE                    | .6                  | .4   | 1.0  | .4    | .3    |       |       |       |       |       |   | 2.8     | 8.3       |
| E                      | .5                  | 1.4  | 2.1  | 1.9   | .2    |       |       |       |       |       |   | 6.2     | 9.0       |
| ESE                    | .1                  | 1.4  | 1.4  | 1.3   | .2    |       |       |       |       |       |   | 4.4     | 9.0       |
| SE                     | .4                  | 1.0  | 1.2  | 1.0   | .1    |       |       |       |       |       |   | 4.6     | 7.9       |
| SSE                    | .5                  | 1.9  | 2.6  | .5    | .3    |       |       |       |       |       |   | 5.9     | 7.6       |
| S                      | .8                  | 2.0  | 5.1  | 3.8   | 1.0   | .3    |       |       |       |       |   | 13.3    | 9.8       |
| SSW                    | .3                  | 1.0  | 3.2  | 4.3   | 1.1   | .4    |       |       |       |       |   | 10.4    | 11.7      |
| SW                     |                     | .8   | 3.1  | 3.5   | .8    | .1    | .1    |       |       |       |   | 8.3     | 11.6      |
| WSW                    | .4                  | 2.1  | 3.5  | 2.9   | .3    | .2    |       |       |       |       |   | 9.4     | 9.0       |
| W                      | 1.5                 | 1.0  | 3.6  | 2.2   | .5    |       |       |       |       |       |   | 9.7     | 8.3       |
| NNW                    | 1.0                 | 2.5  | 1.8  | .6    |       |       |       |       |       |       |   | 5.9     | 6.3       |
| NW                     | .4                  | 1.1  | .6   | .2    |       |       |       |       |       |       |   | 2.4     | 6.2       |
| NNW                    | .8                  | 1.0  | .4   | .6    |       |       |       |       |       |       |   | 2.8     | 6.6       |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |   |         |           |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /   | 3.8     | 11.1      |
| TOTALS                 | 9.1                 | 23.0 | 32.8 | 24.6  | 4.9   | 1.1   | .1    |       |       |       |   | 100.0   | 8.5       |

TOTAL NUMBER OF OBSERVATIONS: 925

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
 MONTH: OCT HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | 1.0                 | 1.4  | .9   | .8    |       |       |       |       |       |       |            | 4.0          | 6.5  |
| NNF                    | .7                  | .8   | .3   | .1    |       |       |       |       |       |       |            | 1.8          | 4.8  |
| NE                     | .5                  | 1.1  | .7   | .1    | .2    |       |       |       |       |       |            | 2.6          | 6.5  |
| ENE                    | .4                  | .7   | 1.4  | 1.2   | .4    |       |       |       |       |       |            | 4.1          | 9.7  |
| E                      | 1.2                 | 1.5  | 3.1  | 1.8   |       |       |       |       |       |       |            | 7.7          | 7.9  |
| ESE                    | .1                  | 1.2  | 1.6  | .4    |       |       |       |       |       |       |            | 3.4          | 8.0  |
| SE                     | .2                  | 1.4  | 2.3  | 1.0   | .2    |       |       |       |       |       |            | 5.1          | 8.4  |
| SSE                    | .2                  | 1.2  | 2.7  | .8    | .2    |       |       |       |       |       |            | 5.1          | 8.5  |
| S                      | .7                  | 3.4  | 3.7  | 3.9   | .9    | .2    |       |       |       |       |            | 12.7         | 9.6  |
| SSW                    | .5                  | .5   | 2.4  | 3.7   | 1.1   | .1    |       |       |       |       |            | 7.9          | 11.4 |
| SW                     | .7                  | 1.1  | 3.1  | 3.3   | .9    | .2    |       |       |       |       |            | 9.2          | 10.6 |
| WSW                    | 1.4                 | 1.1  | 3.8  | 3.7   | .3    |       |       |       |       |       |            | 10.5         | 9.1  |
| W                      | 1.1                 | 2.7  | 2.7  | 1.7   | .5    |       |       |       |       |       |            | 8.1          | 8.7  |
| WNW                    | 1.7                 | 2.7  | 1.3  | .7    |       |       |       |       |       |       |            | 6.4          | 5.5  |
| NW                     | 1.3                 | .8   | .8   | .4    |       |       |       |       |       |       |            | 3.3          | 5.4  |
| NNW                    | .3                  | 1.2  | .8   | .7    |       |       |       |       |       |       |            | 2.9          | 7.2  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 5.1          | //// |
| TOTALS                 | 12.0                | 21.9 | 31.6 | 24.1  | 9.8   | .5    |       |       |       |       |            | 100.0        | 8.2  |

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: OCT HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .8                  | 1.4  | 1.1  | .9    | .1    |       |       |       |       |       |            | 4.3          | 7.4  |
| NNE                    | .4                  | .0   | .7   | .2    |       |       |       |       |       |       |            | 2.1          | 6.3  |
| NE                     | .5                  | .8   | 1.0  | .4    | .1    | .0    |       |       |       |       |            | 2.8          | 7.5  |
| ENE                    | .7                  | .6   | 1.6  | .9    | .2    |       |       |       |       |       |            | 3.9          | 8.4  |
| E                      | .8                  | 1.4  | 3.1  | 1.9   | .2    | .0    |       |       |       |       |            | 7.4          | 8.7  |
| ESE                    | .3                  | .8   | 1.3  | .9    | .2    | .0    |       |       |       |       |            | 3.5          | 9.0  |
| SE                     | .4                  | 1.7  | 2.0  | 1.0   | .4    |       |       |       |       |       |            | 5.0          | 8.8  |
| SSE                    | .5                  | 1.1  | 1.9  | .9    | .2    | .1    |       |       |       |       |            | 4.7          | 8.5  |
| S                      | 1.0                 | 2.0  | 3.8  | 4.0   | 1.4   | .5    | .1    |       |       |       |            | 12.7         | 10.7 |
| SSW                    | .4                  | .0   | 2.5  | 3.9   | 1.7   | .6    |       | .0    |       |       |            | 10.0         | 12.5 |
| SW                     | .3                  | .8   | 2.4  | 3.0   | 1.0   | .2    | .0    |       |       |       |            | 7.8          | 11.6 |
| WSW                    | .6                  | 1.2  | 2.8  | 3.6   | .3    | .0    |       |       |       |       |            | 8.5          | 9.7  |
| W                      | 1.1                 | 1.6  | 2.9  | 3.8   | .7    | .2    | .0    |       |       |       |            | 10.2         | 10.0 |
| NNW                    | 1.4                 | 1.7  | 1.3  | 1.4   | .2    | .1    | .0    |       |       |       |            | 6.2          | 7.7  |
| NW                     | 1.3                 | 1.1  | .9   | .7    | .0    |       |       |       |       |       |            | 4.1          | 6.2  |
| NNW                    | .6                  | 1.0  | .8   | .0    | .2    | .0    |       |       |       |       |            | 3.6          | 8.1  |
| <hr/>                  |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 3.3          | /    |
| TOTALS                 | 11.1                | 18.6 | 29.8 | 28.3  | 6.9   | 1.8   | .1    | .0    |       |       |            | 100.0        | 9.2  |

TOTAL NUMBER OF OBSERVATIONS: 7380

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .9                  | 1.6  | 2.3  | .7    |       |       |       |       |       |       |            | 5.5          | 7.0  |
| NNE                    | .2                  | .3   | 1.0  | .3    | .1    |       |       |       |       |       |            | 2.0          | 8.4  |
| NE                     |                     | .1   | .9   | .4    | .2    |       |       |       |       |       |            | 1.7          | 11.5 |
| FNE                    | .4                  | .1   | .8   | 1.8   |       |       |       |       |       |       |            | 3.1          | 10.1 |
| E                      | .8                  | .8   | 3.2  | 1.2   |       |       |       |       |       |       |            | 6.0          | 8.1  |
| ESE                    | .2                  | .7   | .4   | 1.2   | .1    |       |       |       |       |       |            | 2.7          | 9.5  |
| SE                     | .1                  | .6   | .9   | 1.5   | .1    |       |       |       |       |       |            | 3.1          | 10.2 |
| SSE                    | .1                  | .7   | .8   | 1.0   | .4    |       |       |       |       |       |            | 3.0          | 10.5 |
| S                      | .3                  | 2.2  | 3.6  | 2.7   | .8    | .9    | .1    |       |       |       |            | 10.6         | 10.9 |
| SSW                    | .3                  | .9   | 3.2  | 4.1   | 2.8   | 1.3   |       |       |       |       |            | 12.7         | 13.6 |
| SW                     | .2                  | .2   | 2.6  | 4.2   | 2.2   | .4    |       |       |       |       |            | 9.9          | 13.5 |
| WSW                    | .9                  | 1.1  | 2.0  | 3.4   | .6    | .2    |       |       |       |       |            | 8.3          | 10.0 |
| W                      | 1.5                 | 1.6  | 2.2  | 3.9   | 1.1   | .7    | .1    |       |       |       |            | 11.1         | 10.9 |
| WNW                    | 2.3                 | 2.3  | 1.1  | 1.6   | .3    | .1    |       |       |       |       |            | 7.8          | 7.1  |
| NN                     | 1.6                 | 1.8  | .7   | .6    |       |       |       |       |       |       |            | 4.6          | 5.6  |
| NNW                    | .4                  | 1.0  | 1.6  | .3    | .4    | .3    |       |       |       |       |            | 4.1          | 9.5  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            | 3.8          | /    |
| TOTALS                 | 10.4                | 16.0 | 27.4 | 26.9  | 9.3   | 4.0   | .2    |       |       |       |            | 100.0        | 9.9  |

TOTAL NUMBER OF OBSERVATIONS: 895

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | 1.2                 | 1.0  | 3.2  | 1.1   | .1    |       |       |       |       |       |            | 6.7          | 7.6  |
| NNE                    | .1                  | .6   | .4   | .3    | .3    |       |       |       |       |       |            | 1.8          | 9.4  |
| NE                     |                     | .7   | .3   | .4    | .1    | .1    |       |       |       |       |            | 1.7          | 10.5 |
| ENE                    | .6                  | .7   | 1.1  | 1.6   | .3    | .3    |       |       |       |       |            | 4.0          | 10.7 |
| E                      | .6                  | .7   | 2.8  | .9    |       |       |       |       |       |       |            | 4.9          | 8.0  |
| ESE                    | .7                  | .1   | 1.6  | 1.1   | .2    | .3    |       |       |       |       |            | 4.0          | 10.2 |
| SE                     | .3                  | .8   | .4   | 1.1   | .1    |       |       |       |       |       |            | 2.8          | 8.8  |
| SSE                    | .1                  | .4   | 1.0  | 1.0   | .1    |       |       |       |       |       |            | 2.7          | 9.8  |
| S                      | .4                  | 1.7  | 4.4  | 3.5   | 1.0   | .3    | .1    |       |       |       |            | 11.4         | 10.7 |
| SSW                    | .2                  | .3   | 2.1  | 4.2   | 1.7   | .8    |       |       |       |       |            | 9.4          | 13.6 |
| SW                     | .6                  | .1   | 3.8  | 3.9   | 2.5   | .7    |       |       |       |       |            | 11.4         | 12.7 |
| WSW                    | .9                  | 1.0  | 3.1  | 3.7   | .8    | .1    |       |       |       |       |            | 9.6          | 10.4 |
| W                      | 1.0                 | 1.7  | 2.5  | 4.0   | 1.3   | 1.0   | .1    |       |       |       |            | 11.4         | 12.1 |
| VNW                    | 2.1                 | 2.3  | 1.1  | .8    | .2    |       |       |       |       |       |            | 6.6          | 6.1  |
| NW                     | 2.0                 | 1.2  | .8   | .9    | .3    |       |       |       |       |       |            | 4.8          | 6.1  |
| NNW                    | .4                  | .7   | 1.7  | 1.1   | .1    |       |       |       |       |       |            | 4.0          | 9.0  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | //////              |      |      |       |       |       |       |       |       |       | 2.9        | ////         |      |
| TOTALS                 | 11.3                | 13.4 | 30.4 | 29.1  | 9.3   | 3.5   | .2    |       |       |       | 100.0      | 10.0         |      |

TOTAL NUMBER OF OBSERVATIONS: 896

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0600-0800

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .7                  | .9   | 2.7  | 1.5   | .3    |       |       |       |       |       |            | 6.0          | 8.9  |
| NNE                    | .1                  | .6   | .6   | .7    |       |       |       |       |       |       |            | 1.9          | 8.7  |
| NE                     | .2                  | .2   | 1.0  | .8    |       |       |       |       |       |       |            | 2.2          | 8.8  |
| ENE                    | .3                  | .1   | .6   | 1.7   | .7    | .1    |       |       |       |       |            | 3.5          | 12.0 |
| E                      | .6                  | 1.1  | 3.2  | .8    | .2    |       |       |       |       |       |            | 5.9          | 8.6  |
| ESE                    | .2                  | .6   | .4   | 1.1   | .4    | .2    |       |       |       |       |            | 3.0          | 11.7 |
| SE                     | .3                  | .8   | 1.6  | 1.1   | .1    |       |       |       |       |       |            | 3.9          | 8.9  |
| SSE                    | .2                  | .6   | .7   | .9    | .3    | .1    |       |       |       |       |            | 2.8          | 10.8 |
| S                      | .8                  | 1.5  | 4.5  | 3.4   | 1.2   | .3    | .1    |       |       |       |            | 11.6         | 10.8 |
| SSW                    | .7                  | 1.0  | 2.8  | 4.1   | 2.8   | .6    |       |       |       |       |            | 12.0         | 12.5 |
| SW                     | .3                  | .4   | 2.1  | 4.1   | 1.2   | .8    | .1    |       |       |       |            | 9.2          | 13.4 |
| WSW                    | .3                  | 1.0  | 2.6  | 3.7   | .7    |       |       |       |       |       |            | 8.3          | 10.7 |
| W                      | 1.6                 | 1.9  | 1.6  | 3.1   | 1.2   | .8    |       |       |       |       |            | 10.2         | 11.0 |
| WNW                    | 1.8                 | 1.2  | .7   | 1.3   | .8    | .1    |       |       |       |       |            | 5.6          | 8.0  |
| NW                     | 1.5                 | 1.5  | 1.8  | .4    | .3    |       |       |       |       |       |            | 5.8          | 7.2  |
| NNW                    | .9                  | .9   | 1.9  | 1.0   | .3    |       |       |       |       |       |            | 5.0          | 8.4  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | //                  |      |      |       |       |       |       |       |       |       | 2.8        | //           |      |
| TOTALS                 | 10.5                | 14.2 | 28.7 | 30.1  | 10.4  | 3.0   | .2    |       |       |       | 100.0      | 10.1         |      |

TOTAL NUMBER OF OBSERVATIONS: 893

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       | TOTAL | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 |       |              |
| N                      | .1                  | 1.7  | 1.7  | 1.1   | .2    |       |       |       | 4.5   | 8.7          |
| NNE                    |                     | .4   | 1.3  | .7    |       |       |       |       | 2.5   | 8.7          |
| NE                     | .1                  | .3   | .4   | 1.3   | .2    |       |       |       | 2.5   | 11.1         |
| ENE                    | 1.0                 | .1   | .6   | 1.6   | .4    | .2    |       |       | 3.9   | 10.4         |
| E                      | .2                  | .6   | 2.5  | 1.8   | .3    |       |       |       | 5.4   | 10.2         |
| ESE                    | .3                  | .6   | .8   | 1.5   | .3    |       |       |       | 3.5   | 10.0         |
| SE                     | .7                  | .6   | .8   | 1.2   | .6    |       |       |       | 3.8   | 9.8          |
| SSE                    | .3                  | .6   | 1.3  | 1.3   | .6    |       |       |       | 4.1   | 10.6         |
| S                      | .3                  | 1.2  | 3.3  | 2.1   | 1.5   | 1.1   |       |       | 9.5   | 12.1         |
| SSW                    | .4                  | .1   | 2.2  | 4.5   | 2.7   | 1.1   | .2    |       | 11.3  | 14.7         |
| SW                     | .7                  | .6   | 2.7  | 4.3   | 2.4   | .9    |       |       | 11.7  | 13.2         |
| WSW                    | .3                  | .4   | 3.0  | 3.0   | .8    | .1    |       |       | 8.5   | 11.0         |
| W                      | 1.1                 | 1.6  | 1.8  | 3.8   | 1.3   | .9    |       |       | 10.5  | 11.7         |
| WNW                    | 1.5                 | 1.7  | 1.1  | 1.9   | .9    | .3    |       |       | 7.4   | 9.6          |
| NW                     | .8                  | 1.1  | 1.8  | .4    |       |       |       |       | 4.1   | 7.1          |
| NNW                    | .8                  | 1.2  | 1.5  | 1.6   | .1    |       |       |       | 5.2   | 8.4          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |              |
| CALM                   | //                  |      |      |       |       |       |       |       | 1.6   | //           |
| TOTALS                 | 8.7                 | 12.7 | 26.8 | 33.0  | 12.3  | 4.7   | .2    |       | 100.0 | 11.0         |

TOTAL NUMBER OF OBSERVATIONS: 892

**GLOBAL CLIMATOLOGY BRANCH PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
USAFCETAC FROM HOURLY OBSERVATIONS  
AIR WEATHER SERVICE/MAC**

TOTAL NUMBER OF OBSERVATIONS: 892

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .6                  | 1.8  | 2.1  | .9    |       |       |       |       |       |       | 5.4        | 7.5          |
| NNE                    | .1                  | 1.1  | 1.1  | .3    |       |       |       |       |       |       | 2.7        | 7.1          |
| NE                     | .1                  | .7   | 1.0  | .4    | .1    | .1    |       |       |       |       | 2.5        | 9.5          |
| ENE                    | .4                  | .6   | 1.3  | 1.5   | .4    | .4    |       |       |       |       | 4.4        | 10.4         |
| E                      | .2                  | 1.3  | 1.5  | .8    | .3    |       |       |       |       |       | 4.1        | 8.6          |
| ESE                    | .2                  | .3   | 1.8  | .6    | .4    |       |       |       |       |       | 3.4        | 10.3         |
| SE                     | .4                  | 1.1  | .8   | 2.0   | .3    |       |       |       |       |       | 4.7        | 9.9          |
| SSE                    | .2                  | .4   | 1.3  | 1.0   | .2    | .1    |       |       |       |       | 3.4        | 10.7         |
| S                      | .6                  | 1.1  | 2.7  | 2.5   | 1.0   | 1.0   |       |       |       |       | 8.8        | 12.1         |
| SSW                    | .3                  | .6   | 2.1  | 5.0   | 2.2   | 1.0   | .1    | .1    |       |       | 11.5       | 14.3         |
| SW                     | .1                  | .4   | 2.1  | 4.8   | 1.5   | 1.0   | .1    | .1    |       |       | 10.2       | 14.1         |
| WSW                    | .3                  | 1.5  | 2.5  | 5.4   | 1.0   |       |       |       |       |       | 10.8       | 11.1         |
| W                      | .7                  | 1.8  | 2.8  | 4.0   | 1.0   | .6    |       |       |       |       | 10.4       | 11.2         |
| NNW                    | .2                  | 1.8  | 1.0  | 3.1   | 1.2   |       |       |       |       |       | 7.5        | 11.8         |
| NW                     | .4                  | 1.2  | 1.0  | .7    | .2    |       |       |       |       |       | 3.4        | 8.5          |
| NNW                    | .2                  | 1.2  | 2.5  | 1.2   | .6    |       |       |       |       |       | 5.7        | 9.8          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 1.2        | /            |
| TOTALS                 | 5.3                 | 16.0 | 27.2 | 34.3  | 10.6  | 3.9   | .4    | .2    |       |       | 100.0      | 11.0         |

TOTAL NUMBER OF OBSERVATIONS: 893

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: ROSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | 1.0                 | 2.0  | 2.6  | .4    |       |       |       |       |       |       | 6.0        | 6.6          |
| NNE                    |                     | 1.0  | .8   | .9    |       |       |       |       |       |       | 2.7        | 8.6          |
| NE                     | .2                  | .3   | 1.1  | .8    | .1    |       |       |       |       |       | 2.6        | 9.5          |
| ENE                    |                     | .2   | 1.2  | 1.5   | .2    |       |       |       |       |       | 3.2        | 11.4         |
| E                      |                     | .9   | 2.7  | 1.5   | .2    |       |       |       |       |       | 5.3        | 9.7          |
| ESE                    | .4                  | .3   | 1.5  | .9    | .9    | .2    |       |       |       |       | 3.7        | 10.8         |
| SE                     | .1                  | .4   | 1.1  | 1.5   |       |       |       |       |       |       | 3.1        | 10.0         |
| SSE                    | .3                  | 1.3  | 1.9  | 1.8   | .2    |       |       |       |       |       | 5.6        | 9.2          |
| S                      | .3                  | 2.0  | 3.5  | 1.6   | 1.7   | .8    |       |       |       |       | 9.9        | 11.2         |
| SSW                    | .4                  | .4   | 2.4  | 4.9   | 2.1   | .3    | .2    |       |       |       | 10.9       | 13.5         |
| SW                     | .3                  | .2   | 3.1  | 3.7   | 1.7   | .6    | .1    |       |       |       | 10.0       | 13.3         |
| WSW                    | .7                  | 1.5  | 2.4  | 4.1   | .2    | .1    | .3    |       |       |       | 9.3        | 10.5         |
| W                      | 1.5                 | 1.8  | 2.4  | 3.4   | 1.1   | .4    |       |       |       |       | 10.5       | 10.1         |
| NNW                    | 1.1                 | 2.2  | 1.2  | 2.2   | .4    | .2    |       |       |       |       | 8.2        | 9.3          |
| NW                     | .3                  | .9   | .8   | .7    |       |       |       |       |       |       | 2.9        | 8.2          |
| NNW                    | .9                  | .6   | 1.0  | 1.0   | .4    |       |       |       |       |       | 3.9        | 8.7          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 2.2        | /            |
| TOTALS                 | 7.7                 | 16.3 | 29.6 | 31.8  | 9.0   | 2.7   | .7    |       |       |       | 100.0      | 10.3         |

TOTAL NUMBER OF OBSERVATIONS: 893

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: NOV      HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .7                  | 1.4  | 1.7  | .3    | .1    |       |       |       |       |       |       | 4.2        | 6.8          |
| NNE                    | .4                  | .3   | 1.1  | .9    |       |       |       |       |       |       |       | 2.8        | 8.4          |
| NE                     | .2                  | .6   | .9   | 1.2   |       |       |       |       |       |       |       | 2.9        | 8.8          |
| ENE                    |                     | .2   | .7   | 1.6   | .8    |       |       |       |       |       |       | 2.9        | 12.4         |
| E                      | .3                  | .4   | 3.3  | 1.4   | .2    |       |       |       |       |       |       | 6.1        | 9.0          |
| ESE                    | .3                  | .4   | .7   | .6    |       |       |       |       |       |       |       | 2.1        | 8.6          |
| SE                     | .3                  | .3   | 1.2  | 1.9   | .3    | .1    |       |       |       |       |       | 4.1        | 10.5         |
| SSE                    | .2                  | .4   | 1.4  | 1.1   | .2    |       |       |       |       |       |       | 3.5        | 9.8          |
| S                      | .6                  | 1.7  | 4.7  | 2.8   | 1.0   | 1.1   |       |       |       |       |       | 11.8       | 11.2         |
| SSW                    | .2                  | .7   | 2.9  | 5.1   | 1.7   | 1.1   | .2    |       |       |       |       | 11.9       | 13.6         |
| SW                     | .4                  | .6   | 2.6  | 4.9   | 1.1   | .3    | .2    |       |       |       |       | 10.1       | 12.5         |
| WSW                    | .4                  | .2   | 3.1  | 2.6   | .6    | .2    |       |       |       |       |       | 7.8        | 10.6         |
| W                      | .7                  | 1.6  | 2.2  | 3.9   | 1.1   | .9    |       |       |       |       |       | 9.8        | 11.3         |
| WNW                    | 1.6                 | 2.7  | 1.3  | 2.4   | .2    |       |       |       |       |       |       | 7.8        | 8.0          |
| NW                     | 1.0                 | .8   | 1.4  | .4    |       |       |       |       |       |       |       | 3.8        | 7.1          |
| NNW                    | 1.0                 | 1.1  | 1.8  | 1.2   | .6    | .1    |       |       |       |       |       | 5.7        | 8.6          |
| <hr/>                  |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | //////////          |      |      |       |       |       |       |       |       |       |       | 3.0        | //////       |
| TOTALS                 | 8.5                 | 13.8 | 31.1 | 32.0  | 7.5   | 3.6   | .6    |       |       |       |       | 100.0      | 10.2         |

TOTAL NUMBER OF OBSERVATIONS: 897

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | .7                  | 1.4  | 2.3  | 1.0   | .1    |       |       |       |       |       | 5.4        | 7.8          |
| NNE                    | .2                  | .6   | .9   | .7    | .1    |       |       |       |       |       | 2.4        | 8.5          |
| NE                     | .1                  | .4   | .8   | .8    | .1    | .0    |       |       |       |       | 2.2        | 10.1         |
| ENE                    | .4                  | .5   | .9   | 1.6   | .4    | .1    |       |       |       |       | 3.6        | 11.0         |
| E                      | .4                  | .9   | 2.7  | 1.2   | .2    |       |       |       |       |       | 5.5        | 8.8          |
| ESE                    | .3                  | .1   | 1.0  | 1.0   | .3    | .1    |       |       |       |       | 3.2        | 10.4         |
| SE                     | .4                  | .6   | 1.0  | 1.5   | .2    | .0    |       |       |       |       | 3.7        | 9.9          |
| SSE                    | .2                  | .6   | 1.3  | 1.2   | .3    | .1    |       |       |       |       | 3.6        | 10.2         |
| S                      | .5                  | 1.5  | 3.5  | 2.7   | 1.1   | .8    | .0    |       |       |       | 10.2       | 11.4         |
| SSW                    | .4                  | .5   | 2.3  | 4.4   | 2.3   | 1.0   | .2    | .0    |       |       | 11.1       | 10.1         |
| SW                     | .3                  | .4   | 2.6  | 4.3   | 1.9   | .8    | .1    | .0    |       |       | 10.4       | 13.5         |
| WSW                    | .5                  | 1.0  | 2.9  | 4.1   | .6    | .1    | .1    |       |       |       | 9.4        | 10.7         |
| W                      | 1.1                 | 1.5  | 2.2  | 3.2   | 1.2   | .7    | .0    |       |       |       | 10.5       | 11.4         |
| WNW                    | 1.4                 | 1.7  | 1.2  | 2.1   | .7    | .2    | .0    |       |       |       | 7.3        | 9.2          |
| NW                     | 1.0                 | 1.1  | 1.2  | .8    | .1    | .0    | .0    |       |       |       | 4.2        | 7.5          |
| NNW                    | .6                  | 1.0  | 1.8  | 1.1   | .3    | .1    |       |       |       |       | 5.0        | 8.9          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 2.2        | /            |
| TOTALS                 | 8.5                 | 14.1 | 28.3 | 32.2  | 10.1  | 4.1   | .4    | .0    |       |       | 100.0      | 10.6         |

TOTAL NUMBER OF OBSERVATIONS: 7151

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: DEC HOURS(LST): 0000-0200

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .8                  | 1.2  | 1.0  | .6    | .3    | .1    |       |       |       |       |       | 4.0        | 8.2          |
| NNE                    | .2                  | .8   | .2   | .3    |       |       |       |       |       |       |       | 1.6        | 6.6          |
| NE                     | .2                  | .6   | .6   | .9    |       |       |       |       |       |       |       | 2.2        | 9.2          |
| ENE                    | .1                  | .7   | 1.0  | .6    | .2    | .2    |       |       |       |       |       | 2.3        | 11.5         |
| E                      | .4                  | 1.3  | 3.7  | 3.6   | .2    |       |       |       |       |       |       | 9.3        | 9.6          |
| ESE                    | .1                  | .7   | 1.7  | 1.7   | .1    |       |       |       |       |       |       | 3.2        | 9.5          |
| SE                     | .3                  | .6   | 1.0  | 1.1   | .4    |       |       |       |       |       |       | 3.5        | 10.0         |
| SSE                    | .6                  | .4   | 1.6  | 1.4   | 1.2   | .2    |       |       |       |       |       | 5.5        | 12.1         |
| S                      | 1.8                 | 2.0  | 4.6  | 3.7   | 1.6   | .6    |       |       |       |       |       | 13.8       | 10.3         |
| SSW                    | .4                  | .7   | 2.3  | 3.7   | 1.3   | 1.1   | .1    |       |       |       |       | 9.3        | 13.3         |
| SW                     | .2                  | .7   | 1.7  | 3.0   | 1.9   | 1.6   | .2    |       |       |       |       | 9.3        | 14.8         |
| WSW                    | .4                  | 1.1  | 2.7  | 3.7   | .7    | .3    |       |       |       |       |       | 8.9        | 11.2         |
| W                      | 1.2                 | 1.8  | 3.0  | 2.9   | 1.6   | 1.6   | .4    |       |       |       |       | 12.5       | 12.2         |
| WNW                    | 1.0                 | 1.4  | .9   | 1.4   | .1    | .2    |       |       |       |       |       | 5.1        | 8.2          |
| NW                     | .7                  | .6   | 2.0  | .4    | .1    |       |       |       |       |       |       | 3.8        | 7.8          |
| NNW                    | .2                  | .6   | 1.1  | .0    |       |       |       |       |       |       |       | 2.7        | 8.9          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 3.1        | /            |
| TOTALS                 | 8.5                 | 13.7 | 29.0 | 29.2  | 9.8   | 5.9   | .8    |       |       |       |       | 100.0      | 10.6         |

TOTAL NUMBER OF OBSERVATIONS: 897

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFEETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: DEC      HOURS(LST): 0300-0500

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .3                  | 1.1  | 1.0  | .9    | .1    | .1    |       |       |       |       |            | 3.6          | 8.5  |
| NNE                    | .3                  | .1   | .1   | .2    | .1    | .1    |       |       |       |       |            | 1.6          | 10.9 |
| NE                     | .3                  | .4   | .3   | .2    |       |       | .2    |       |       |       |            | 1.6          | 8.6  |
| ENE                    | .3                  | .2   | 1.7  | 1.4   | .2    | .1    |       |       |       |       |            | 4.0          | 10.3 |
| E                      | .6                  | 1.2  | 3.2  | 3.3   | .3    |       |       |       |       |       |            | 8.7          | 9.4  |
| ESE                    | .6                  | .7   | .4   | 1.4   | .2    |       |       |       |       |       |            | 3.0          | 10.4 |
| SE                     | .4                  | .4   | 1.2  | 1.2   | .6    | .1    |       |       |       |       |            | 4.0          | 10.7 |
| SSE                    | .7                  | .7   | 1.2  | 1.0   | .6    | .9    |       |       |       |       |            | 5.9          | 12.5 |
| S                      | .8                  | 1.4  | 4.1  | 3.7   | 1.0   | .9    |       |       |       |       |            | 12.7         | 11.5 |
| SSW                    | .6                  | 1.0  | 2.0  | 3.4   | 1.1   | .9    |       |       |       |       |            | 8.9          | 12.5 |
| SW                     | .2                  | .4   | 1.9  | 2.0   | 2.3   | 1.0   | .2    |       |       |       |            | 8.9          | 14.7 |
| WSW                    | .3                  | 1.6  | 3.1  | 3.9   | .4    | .1    |       |       |       |       |            | 9.4          | 10.1 |
| W                      | .8                  | 1.6  | 2.0  | 4.0   | 1.7   | .9    |       | .3    |       |       |            | 11.2         | 12.6 |
| WNW                    | 1.0                 | 1.9  | 1.2  | 1.1   | 1.0   | .7    |       |       |       |       |            | 6.9          | 10.4 |
| NNW                    | 1.1                 | 1.2  | .3   | .2    | .2    |       |       |       |       |       |            | 3.1          | 6.0  |
| NNN                    | .7                  | .1   | 1.4  | 1.7   | .2    |       |       |       |       |       |            | 4.1          | 9.7  |
| <b>VARIABLE</b>        |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | //                  |      |      |       |       |       |       |       |       |       | 2.6        | ////         |      |
| TOTALS                 | 8.9                 | 13.4 | 25.3 | 32.0  | 10.9  | 6.0   | .2    | .3    |       |       | 100.0      | 10.9         |      |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORDS: 77-86  
MONTH: DEC HOURS(LST): 0600-0800

| DIRECTION<br>DEGREES | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|----------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                      | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                    | .6                  | .9   | 1.0  | 1.1   | .7    | .1    |       |       |       |       |            | 3.0          | 8.8  |
| NNE                  | .1                  | .3   | .6   | .6    | .2    | .1    |       |       |       |       |            | 1.9          | 10.6 |
| NE                   | .2                  | .0   | .2   | .1    |       |       |       |       |       |       |            | 1.5          | 5.8  |
| ENE                  | .7                  | .2   | 1.2  | 1.7   | .1    | .2    |       |       |       |       |            | 3.8          | 9.7  |
| E                    | .3                  | .6   | 2.2  | 3.9   | .2    |       |       |       |       |       |            | 7.3          | 10.6 |
| ESE                  | .1                  | .6   | .9   | 1.0   | .7    |       |       |       |       |       |            | 3.7          | 12.6 |
| SE                   | .7                  | 1.0  | 1.1  | .9    | .9    | .1    |       |       |       |       |            | 4.6          | 9.6  |
| SSE                  |                     | .7   | 1.1  | 1.2   | .8    | 1.5   | .1    |       |       |       |            | 4.9          | 16.5 |
| S                    | .9                  | .9   | 4.2  | 3.0   | 2.1   | .8    |       |       |       |       |            | 11.9         | 11.7 |
| SSW                  | .6                  | .7   | 2.1  | 4.4   | .9    | 1.0   |       |       |       |       |            | 9.6          | 12.7 |
| SW                   | .3                  | .8   | 2.7  | 4.1   | 1.5   | .6    |       |       |       |       |            | 9.6          | 12.6 |
| WSW                  | .3                  | 1.0  | 3.5  | 4.1   | 1.0   | .1    |       |       |       |       |            | 10.0         | 10.8 |
| W                    | 1.1                 | 1.7  | 2.7  | 4.8   | 1.1   | .7    |       |       |       |       |            | 11.7         | 11.7 |
| NNW                  | 1.3                 | 1.6  | 1.2  | 2.0   | .3    | .2    |       |       |       |       |            | 6.7          | 8.8  |
| NW                   | 1.0                 | 1.0  | .2   | .8    |       |       |       |       |       |       |            | 3.0          | 6.6  |
| NNW                  | .2                  | .4   | 1.0  | 1.7   |       |       |       |       |       |       |            | 3.3          | 9.5  |
| VARIABLE             |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                 | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            | 2.6          | /    |
| TOTALS               | 8.5                 | 12.1 | 25.6 | 35.8  | 10.0  | 5.4   | .1    |       |       |       |            | 100.0        | 10.8 |

TOTAL NUMBER OF OBSERVATIONS: 896

STATION NUMBER: U37460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(SLT): 0900-1100

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .6                  | 1.1  | 1.0  | 1.7   | .7    |       |       |       |       |       |            | 4.3          | 8.8  |
| NNE                    |                     | .3   | .6   | .7    | .1    |       |       |       |       |       |            | 1.3          | 9.5  |
| NE                     | .2                  | .2   | .1   | .5    |       |       |       |       |       |       |            | 1.1          | 8.3  |
| ENE                    | .4                  | .7   | .9   | 1.6   |       |       |       |       |       |       |            | 3.4          | 10.5 |
| E                      | .7                  | .7   | 2.0  | 4.0   | .2    |       |       |       |       |       |            | 7.5          | 10.6 |
| ESE                    | .3                  | .9   | 1.0  | 1.7   | .9    | .1    |       |       |       |       |            | 4.4          | 11.3 |
| SE                     | .8                  | .7   | 1.0  | 1.3   | .8    | .2    |       |       |       |       |            | 4.8          | 11.5 |
| SSE                    | .6                  | .8   | 1.1  | .6    | 1.2   | .6    |       |       |       |       |            | 4.9          | 12.2 |
| S                      | .4                  | 1.0  | 5.3  | 2.7   | 2.7   | 1.0   | .1    |       |       |       |            | 13.4         | 12.5 |
| SSW                    | .2                  | .7   | 2.1  | 3.2   | 1.7   | .8    | .6    |       |       |       |            | 9.2          | 14.1 |
| SW                     |                     | .7   | 2.7  | 3.2   | 1.4   | .6    |       |       |       |       |            | 8.5          | 13.0 |
| WSW                    | .2                  | 1.0  | 2.4  | 5.9   | .6    | .1    |       |       |       |       |            | 10.2         | 11.5 |
| W                      | 1.2                 | 1.4  | 2.2  | 5.0   | 1.7   | .4    | .1    |       |       |       |            | 12.1         | 11.5 |
| NNW                    | .9                  | 1.1  | 1.8  | 1.1   | .2    | .9    |       |       |       |       |            | 6.0          | 10.1 |
| NW                     | .9                  | .8   | .4   | .8    |       |       |       |       |       |       |            | 2.9          | 6.8  |
| NNB                    | .1                  | .2   | 1.4  | 2.0   | .1    |       |       |       |       |       |            | 3.9          | 11.0 |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            | 2.3          | /    |
| TOTALS                 | 7.2                 | 11.7 | 26.1 | 35.1  | 11.9  | 5.0   | .8    |       |       |       |            | 100.0        | 11.2 |

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: DEC    HOURS(LST): 1200-1400

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .2                  | .6   | 1.0  | 1.0   | .6    |       |       |       |       |       |            | 4.2          | 11.0 |
| NNE                    | .1                  | .2   | .8   |       |       |       |       |       |       |       |            | 1.1          | 7.1  |
| NE                     | .7                  | .1   | .5   |       |       | .2    |       |       |       |       |            | 1.3          | 10.6 |
| ENE                    | .4                  | .3   | 1.2  | .9    | .3    |       |       |       |       |       |            | 3.1          | 9.5  |
| E                      | .6                  | .6   | 1.8  | 2.2   |       |       |       |       |       |       |            | 5.1          | 9.2  |
| ESE                    | .7                  | .6   | .6   | 2.2   | 1.0   |       |       |       |       |       |            | 5.0          | 11.6 |
| SE                     | .2                  | .7   | .7   | 2.0   | .9    | .6    |       |       |       |       |            | 4.6          | 13.7 |
| SSE                    | .3                  | .7   | .7   | .7    | .7    | .3    |       |       |       |       |            | 3.3          | 11.9 |
| S                      | .9                  | 1.9  | 2.2  | 4.2   | 2.6   | .7    | .2    |       |       |       |            | 12.7         | 12.5 |
| SSW                    | .4                  | .9   | 1.3  | 2.9   | 2.7   | .8    | .2    |       |       |       |            | 9.2          | 14.2 |
| SW                     | .7                  | .8   | 2.0  | 3.9   | 2.3   | 1.1   |       |       |       |       |            | 10.3         | 13.8 |
| WSW                    | .2                  | .9   | 2.4  | 5.7   | .6    | .1    |       |       |       |       |            | 9.9          | 11.3 |
| W                      | .9                  | 1.3  | 2.9  | 6.2   | 2.6   | .2    |       |       |       |       |            | 14.1         | 12.1 |
| NNW                    | .7                  | .7   | 1.0  | 3.0   | .7    | .9    |       |       |       |       |            | 6.5          | 13.0 |
| NW                     | .3                  | .7   | 1.3  | .7    | .3    |       |       |       |       |       |            | 3.3          | 8.9  |
| NNW                    | .2                  | .3   | 1.2  | 3.1   |       |       |       |       |       |       |            | 4.9          | 11.1 |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     |            | 1.2          | /    |
| TOTALS                 | 6.5                 | 10.8 | 21.2 | 39.8  | 15.1  | 4.9   | .9    |       |       |       |            | 100.0        | 11.9 |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS**

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 1500-1700

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS                                  |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|--|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3  | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .1   | 1.5  | 1.5  | .6    | .6    | .1    |       |       |       |       |       | 4.3        | 9.7          |
| NNE                    |  |      |      | .4    | .4    | .1    |       |       |       |       |       | 1.0        | 11.2         |
| NE                     | .3   | .7   | .3   | .2    |       |       |       |       |       |       |       | 1.1        | 6.2          |
| FNE                    |  |      | .4   | .7    | 1.2   | .3    | .1    |       |       |       |       | 2.8        | 11.8         |
| E                      | .4   | 1.3  | 1.8  | 1.6   |       |       |       |       |       |       |       | 5.2        | 8.5          |
| ESE                    | .2   | .7   | .7   | 2.1   | .2    | .2    | .1    |       |       |       |       | 3.8        | 12.5         |
| SF                     | .1   | .9   | 2.0  | 1.9   | .3    | .4    |       |       |       |       |       | 5.6        | 11.4         |
| SSE                    | .3   | .9   | 1.7  | 2.0   | .9    | .2    |       |       |       |       |       | 5.9        | 11.5         |
| S                      | .2   | 1.9  | 3.9  | 4.5   | 2.1   | .3    | .6    |       |       |       |       | 13.6       | 12.1         |
| SSW                    | .2   | .6   | 2.6  | 2.7   | 2.1   | .7    | .1    |       |       |       |       | 8.9        | 13.7         |
| SW                     |  |      | 2.0  | 2.7   | 1.8   | .6    | .2    |       |       |       |       | 8.1        | 13.8         |
| WSW                    | .2   | 2.0  | 3.9  | 2.4   | .4    |       |       |       |       |       |       | 9.0        | 9.4          |
| W                      | 1.0  | 1.7  | 3.7  | 6.2   | 2.1   | .8    |       |       |       |       |       | 15.5       | 11.7         |
| NNW                    | .8   | .7   | 1.5  | 2.0   | .2    | .1    |       |       |       |       |       | 5.3        | 9.5          |
| NW                     | .2   | 1.1  | 1.3  | 1.0   |       |       |       |       |       |       |       | 3.7        | 8.0          |
| NNW                    | .4   | .6   | 2.0  | 2.1   |       |       |       |       |       |       |       | 5.2        | 9.3          |
| <b>VARIABLE</b>        |  |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | // |      |      |       |       |       |       |       |       |       |       | 1.1        | //////       |
| TOTALS                 | 4.7  | 14.7 | 30.1 | 33.4  | 11.3  | 3.6   | 1.0   |       |       |       |       | 100.0      | 11.1         |

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
 MONTH: DEC      HOURS(LST): 1800-2000

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .4                  | 1.2  | 1.7  | .3    | .3    | .1    | .2    |       |       |       |            | 4.3          | 9.4  |
| NNE                    | .1                  | .7   | .2   | .1    |       |       |       |       |       |       |            | 1.1          | 6.4  |
| NE                     | .1                  | .4   |      | .3    |       |       |       |       |       |       |            | 1.2          | 6.7  |
| ENE                    | .1                  | .4   | .3   | .9    | .6    | .2    |       |       |       |       |            | 2.6          | 12.4 |
| E                      | .1                  | 1.2  | 2.2  | 2.3   | .9    | .2    |       |       |       |       |            | 6.5          | 10.7 |
| ESE                    | .4                  | .6   | 1.2  | 1.0   | .3    | .1    | .1    |       |       |       |            | 3.8          | 10.6 |
| SE                     | .2                  | 1.3  | 1.8  | 1.7   | .7    | .4    |       |       |       |       |            | 5.8          | 10.8 |
| SSE                    | .6                  | 1.1  | 1.3  | 2.0   | 1.4   | .3    |       | .1    |       |       |            | 6.9          | 12.2 |
| S                      | .2                  | 1.9  | 5.4  | 2.8   | 2.1   | .9    | .1    |       |       |       |            | 13.4         | 11.8 |
| SSW                    |                     | .4   | 2.6  | 3.0   | 1.4   | .8    | .4    |       |       |       |            | 8.7          | 14.2 |
| SW                     | .3                  | .9   | 2.0  | 3.6   | 1.4   | .7    |       |       |       |       |            | 8.8          | 13.0 |
| WSW                    | .3                  | 1.8  | 2.6  | 3.9   | .8    |       |       |       |       |       |            | 9.3          | 10.4 |
| W                      | .3                  | 1.2  | 3.2  | 3.9   | 1.6   | 1.1   | .1    |       |       |       |            | 11.3         | 12.8 |
| WNW                    | 1.7                 | 2.0  | 1.3  | 1.8   |       |       |       |       |       |       |            | 6.8          | 7.1  |
| NW                     | .8                  | .7   | 1.3  | .3    |       |       |       |       |       |       |            | 3.1          | 6.8  |
| NNW                    | .2                  | .6   | 2.3  | 1.7   |       |       |       |       |       |       |            | 4.8          | 9.1  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 1.7          | /    |
| TOTALS                 | 6.0                 | 16.6 | 29.5 | 29.1  | 11.1  | 4.9   | 1.0   | .1    |       |       |            | 100.0        | 11.0 |

TOTAL NUMBER OF OBSERVATIONS: 901

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATION

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 2100-2300

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 |            |              |
| N                      | 1.0                 | 1.8  | .9   | .4    | .1    | .3    |       |       |       |       | 4.5        | 7.6          |
| NNE                    | .3                  | .6   | .2   |       |       |       |       |       |       |       | 1.1        | 4.8          |
| NE                     |                     | .1   | .2   | .6    |       |       |       |       |       |       | .9         | 11.1         |
| ENE                    |                     | .6   | .2   | .6    | .1    |       |       |       |       |       | 1.8        | 13.6         |
| E                      | .6                  | 1.7  | 3.3  | 3.1   | .3    |       |       |       |       |       | 8.5        | 9.8          |
| ESE                    | .3                  | 1.4  | .9   | .4    | .3    |       |       |       |       |       | 3.4        | 8.0          |
| SE                     | .2                  | .6   | 1.7  | 1.7   | 1.2   | .3    |       |       |       |       | 5.6        | 12.4         |
| SSE                    | .3                  | 1.3  | 1.6  | 1.4   | .8    |       |       |       |       |       | 5.4        | 10.1         |
| S                      | 1.1                 | 2.7  | 4.7  | 2.7   | 2.1   | .4    | .2    |       |       |       | 13.8       | 10.5         |
| SSW                    | .3                  | .7   | 2.1  | 2.7   | 2.3   | .8    | .2    |       |       |       | 9.3        | 14.5         |
| SW                     | .4                  | .6   | 2.7  | 3.9   | 1.8   | .7    |       |       |       |       | 9.9        | 12.6         |
| WSW                    | .7                  | .9   | 2.2  | 3.9   | 1.1   | .3    |       |       |       |       | 9.1        | 11.5         |
| W                      | 1.3                 | 2.0  | 2.7  | 3.9   | 1.7   | 1.0   | .2    |       |       |       | 12.6       | 11.7         |
| WNW                    | 1.1                 | 1.0  | 2.4  | 1.2   |       | .1    |       |       |       |       | 5.9        | 7.9          |
| NW                     | .9                  | 1.0  | 1.8  | .7    |       |       |       |       |       |       | 4.3        | 7.1          |
| NNW                    | .4                  | .3   | 1.1  | 1.1   |       |       |       |       |       |       | 3.0        | 8.8          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | 1.8        | /            |
| TOTALS                 | 9.1                 | 16.2 | 28.6 | 27.6  | 11.8  | 4.0   | 1.0   |       |       |       | 100.0      | 10.6         |

TOTAL NUMBER OF OBSERVATIONS: 903

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 |            |              |
| N                      | .5                  | 1.2  | 1.1  | .9    | .3    | .1    | .0    |       |       | 4.1        | 9.0          |
| NNE                    | .2                  | .4   | .4   | .3    | .1    | .0    |       |       |       | 1.3        | 8.6          |
| NE                     | .2                  | .5   | .2   | .4    |       | .1    |       |       |       | 1.4        | 8.3          |
| ENE                    | .3                  | .3   | .9   | 1.0   | .2    | .2    | .0    |       |       | 3.0        | 10.9         |
| E                      | .5                  | 1.0  | 2.5  | 3.0   | .2    | .0    |       |       |       | 7.3        | 9.8          |
| ESE                    | .3                  | .6   | .9   | 1.4   | .5    | .1    | .0    |       |       | 3.8        | 10.9         |
| SE                     | .3                  | .7   | 1.3  | 1.4   | .7    | .3    |       |       |       | 4.9        | 11.3         |
| SSE                    | .4                  | .8   | 1.3  | 1.4   | .9    | .5    | .0    | .0    |       | 5.3        | 12.3         |
| S                      | .8                  | 1.7  | 4.3  | 3.4   | 2.1   | .7    | .2    |       |       | 13.2       | 11.6         |
| SSW                    | .3                  | .6   | 2.1  | 3.2   | 1.7   | .8    | .2    |       |       | 9.0        | 13.6         |
| SW                     | .2                  | .6   | 2.2  | 3.4   | 1.8   | .8    | .1    |       |       | 9.2        | 13.5         |
| WSW                    | .3                  | 1.3  | 2.9  | 4.2   | .7    | .1    |       |       |       | 9.5        | 10.8         |
| W                      | 1.0                 | 1.5  | 2.8  | 4.6   | 1.7   | .8    | .1    | .0    |       | 12.6       | 12.0         |
| WNW                    | 1.1                 | 1.2  | 1.4  | 1.7   | .3    | .4    |       |       |       | 6.1        | 9.4          |
| NW                     | .7                  | .9   | 1.1  | .6    | .1    |       |       |       |       | 3.4        | 7.3          |
| NNW                    | .3                  | .4   | 1.5  | 1.0   | .0    |       |       |       |       | 4.0        | 9.7          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | 2.0        | /            |
| TOTALS                 | 7.4                 | 13.7 | 26.9 | 32.7  | 11.5  | 5.0   | .7    | .1    |       | 100.0      | 11.0         |

TOTAL NUMBER OF OBSERVATIONS: 7188

GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFETAC                            FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-87  
 MONTH: ALL HOURS(LST): ALL

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |      |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56      |              |      |
| N                      | .7                  | 1.9  | 1.9  | 1.3   | .2    | .0    | .0    |       |       |       |            | 6.0          | 8.0  |
| NNE                    | .3                  | .9   | 1.3  | 1.3   | .2    | .0    |       |       |       |       |            | 4.0          | 9.3  |
| NE                     | .3                  | .6   | 1.2  | 1.3   | .3    | .1    |       |       |       |       |            | 3.8          | 9.8  |
| FNE                    | .4                  | .6   | 1.2  | 1.6   | .5    | .2    | .0    |       |       |       |            | 4.5          | 11.0 |
| E                      | .7                  | 1.1  | 2.2  | 2.1   | .4    | .1    | .0    |       |       |       |            | 6.5          | 9.5  |
| ESE                    | .4                  | .6   | 1.0  | .9    | .2    | .1    | .0    |       |       |       |            | 3.2          | 9.4  |
| SF                     | .4                  | .0   | 1.1  | 1.1   | .3    | .1    | .0    | .0    |       |       |            | 3.8          | 9.6  |
| SSE                    | .4                  | .9   | 1.3  | 1.0   | .3    | .1    | .0    | .0    |       |       |            | 3.9          | 9.3  |
| S                      | .7                  | 1.7  | 3.6  | 2.8   | .9    | .3    | .0    | .0    |       |       |            | 10.1         | 10.2 |
| SSW                    | .4                  | .7   | 2.1  | 3.2   | 1.3   | .5    | .1    | .0    | .0    |       |            | 8.4          | 12.5 |
| SW                     | .3                  | .6   | 1.9  | 2.5   | 1.0   | .4    | .1    | .0    | .0    |       |            | 6.7          | 12.2 |
| WSW                    | .5                  | 1.3  | 2.3  | 2.6   | .3    | .1    | .0    |       |       |       |            | 7.0          | 9.7  |
| W                      | 1.1                 | 2.1  | 3.1  | 4.2   | 1.0   | .4    | .1    | .0    |       |       |            | 12.0         | 10.5 |
| WNW                    | 1.5                 | 2.1  | 1.7  | 1.9   | .5    | .2    | .0    | .0    |       |       |            | 7.9          | 8.6  |
| NW                     | 1.2                 | 1.3  | 1.2  | .9    | .1    | .1    | .0    | .0    |       |       |            | 4.8          | 7.3  |
| NNW                    | .7                  | 1.2  | 1.3  | 1.1   | .1    | .0    | .0    |       |       |       |            | 4.5          | 8.1  |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |            |              |      |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /          | 2.9          | /    |
| TOTALS                 | 10.0                | 18.3 | 28.6 | 29.7  | 7.6   | 2.6   | .3    | .0    | .0    |       |            | 100.0        | 9.6  |

TOTAL NUMBER OF OBSERVATIONS: 86045

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-87  
MONTH: ALL HOURS(LST): ALL

CEILINGS 200 TO 1400 FEET WITH VISIBILITIES 1/2 MILE OR MORE

AND/OR

CEILINGS 200 FEET OR MORE WITH VISIBILITIES 1/2 TO 2-1/2 MILES

| DIRECTION<br>(DEGREES) | WIND SPEED IN KNOTS |      |      |       |       |       |       |       |       |       |       | TOTAL<br>% | MEAN<br>WIND |
|------------------------|---------------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------------|--------------|
|                        | 1-3                 | 4-6  | 7-10 | 11-16 | 17-21 | 22-27 | 28-33 | 34-40 | 41-47 | 48-55 | GE 56 |            |              |
| N                      | .7                  | 1.7  | 1.8  | 1.5   | .2    | .1    | .0    |       |       |       |       | 6.1        | 8.5          |
| NNE                    | .3                  | .9   | 1.5  | 1.5   | .4    | .1    |       |       |       |       |       | 4.5        | 9.9          |
| NE                     | .4                  | .7   | 1.3  | 1.4   | .2    | .1    |       |       |       |       |       | 4.1        | 9.9          |
| ENE                    | .5                  | .6   | 1.3  | 1.9   | .6    | .1    | .0    |       |       |       |       | 5.1        | 11.0         |
| E                      | .8                  | 1.3  | 2.5  | 2.7   | .5    | .1    | .0    |       |       |       |       | 7.9        | 9.7          |
| ESE                    | .5                  | .7   | 1.0  | 1.2   | .3    | .1    | .0    |       |       |       |       | 3.8        | 9.8          |
| SE                     | .4                  | .9   | 1.5  | 1.8   | .4    | .2    | .0    | .0    |       |       |       | 5.2        | 10.3         |
| SSE                    | .4                  | .9   | 1.6  | 1.5   | .6    | .2    | .0    |       |       |       |       | 5.2        | 10.8         |
| S                      | .6                  | 1.4  | 3.5  | 4.4   | 2.1   | .8    | .1    | .0    |       |       |       | 13.0       | 12.3         |
| SSW                    | .4                  | .7   | 1.9  | 4.8   | 2.7   | 1.2   | .1    | .0    | .0    |       |       | 11.8       | 14.3         |
| SW                     | .3                  | .4   | 1.4  | 2.7   | 1.7   | .7    | .1    | .0    |       |       |       | 7.4        | 14.1         |
| WSW                    | .4                  | .9   | 1.7  | 2.2   | .3    | .1    | .0    |       |       |       |       | 5.6        | 10.1         |
| W                      | .8                  | 1.2  | 1.8  | 2.0   | .5    | .3    | .0    |       |       |       |       | 6.5        | 9.9          |
| WNW                    | 1.4                 | 1.0  | .8   | .6    | .1    | .1    |       |       |       |       |       | 3.9        | 6.4          |
| NW                     | 1.2                 | 1.0  | .8   | .3    | .0    | .1    |       |       |       |       |       | 3.4        | 6.1          |
| NNW                    | .9                  | .9   | 1.0  | .6    | .1    | .0    |       |       |       |       |       | 3.4        | 7.4          |
| VARIABLE               |                     |      |      |       |       |       |       |       |       |       |       |            |              |
| CALM                   | /                   | /    | /    | /     | /     | /     | /     | /     | /     | /     | /     | 3.1        | /            |
| TOTALS                 | 9.8                 | 15.1 | 25.4 | 31.7  | 10.7  | 4.2   | .5    | .0    | .0    |       |       | 100.0      | 10.4         |

TOTAL NUMBER OF OBSERVATIONS: 21665

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PP PP AA AA RR RR TT TT DD DD  
PP PP AA AA RR RR TT TT DD DD  
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PP AA AA RR RR TT TT DD DD  
PP AA AA RR RR TT TT DD DD  
PP AA AA RR RR TT TT DD DD  
PP AA AA RR RR TT TT DD DD

## CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

### CEILING VERSUS VISIBILITY SUMMARY

THIS SUMMARY IS A BIVARIATE FREQUENCY DISTRIBUTION BY CLASSES OF CEILING FROM 000' THROUGH EQUAL TO OR GREATER THAN 20,000 FEET AND AS A SEPARATE CLASS "NO CEILING", VERSUS VISIBILITY IN 16 CLASSES FROM ZERO THROUGH EQUAL TO OR GREATER THAN 10 MILES.

DATA DERIVED FROM HOURLY OBSERVATIONS.

FREQUENCY DISTRIBUTION PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

#### NOTES:

BEGINNING IN 1968, METAR STATIONS REPORTED VISIBILITIES TO 6 MILES AND GREATER THAN 6 MILES. THEREFORE THE COLUMN FOR VISIBILITIES EQUAL TO OR GREATER THAN 10 MILES APPEAR BLANK.

AS A RULE, AIRWAYS STATIONS NORMALLY REPORT VISIBILITIES TO 6 MILES AND 7 OR GREATER, HOWEVER SOME STATIONS REPORT HIGHER VALUES. THEREFORE, THE 10 MILE VISIBILITY COLUMN SOMETIMES CONTAIN SMALL PERCENTAGE VALUES. HOWEVER, THESE VALUES ARE OF LITTLE MEANING AND SHOULD BE DISREGARDED.

FOR METAR CIVILIAN STATIONS REPORTING "CAVOK", ALL CEILINGS ABOVE 5000 FEET WERE SUPPRESSED TO 5000 FEET. THEREFORE, NO PERCENT VALUES APPEAR ABOVE 5000 FEET.

### SKY COVER SUMMARY

PRESENTS PERCENTAGES OF SKY COVER IN EITHER 10THS OF COVERAGE OR "AIRWAYS CLASSIFICATIONS".

DATA SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

ALSO PRESENTED ARE MEAN SKY COVERS.

FOR AIRWAY STATIONS, THE CONVERSION FROM THE AIRWAYS DESIGNATIONS TO 10THS FOR PRESENTATION ARE:

|           |   |       |
|-----------|---|-------|
| CLEAR     | - | 0/10  |
| SCATTERED | - | 3/10  |
| BROKEN    | - | 9/10  |
| OVERCAST  | - | 10/10 |
| OBSCURED  | - | 10/10 |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 0000-0200

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|
|                       | GT<br>90                         | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>30 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GI<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |
| NO CETL   1P+R        | 23.0                             | 25.3     | 25.7     | 26.9     | 27.4     | 28.3     | 29.0     | 29.4     | 29.4     | 29.4     | 29.4    | 29.7    | 29.7    | 29.7    | 30.3  |  |
| GE 20000   22.4       | 28.1                             | 28.9     | 31.4     | 32.6     | 33.6     | 34.7     | 35.6     | 36.0     | 36.0     | 36.0     | 36.0    | 36.3    | 36.3    | 36.3    | 36.9  |  |
| GE 18000   22.6       | 28.3                             | 29.0     | 31.6     | 32.4     | 33.9     | 34.9     | 35.8     | 36.3     | 36.3     | 36.3     | 36.3    | 36.3    | 36.5    | 36.5    | 37.2  |  |
| GE 16000   22.6       | 28.3                             | 29.0     | 31.6     | 32.4     | 33.9     | 34.9     | 35.8     | 36.3     | 36.3     | 36.3     | 36.3    | 36.3    | 36.5    | 36.5    | 37.2  |  |
| GE 14000   22.8       | 28.5                             | 29.2     | 31.8     | 33.1     | 34.1     | 35.1     | 36.0     | 36.5     | 36.5     | 36.5     | 36.5    | 36.5    | 36.7    | 36.7    | 37.4  |  |
| GE 12000   23.5       | 29.5                             | 30.2     | 32.8     | 34.1     | 35.1     | 36.1     | 37.0     | 37.5     | 37.5     | 37.5     | 37.5    | 37.5    | 37.7    | 37.7    | 38.4  |  |
| GE 10000   24.2       | 31.1                             | 31.9     | 34.8     | 36.2     | 37.2     | 38.2     | 39.1     | 39.5     | 39.5     | 39.5     | 39.5    | 39.8    | 39.8    | 39.8    | 40.5  |  |
| GE 9000   24.7        | 31.7                             | 32.5     | 35.5     | 36.7     | 37.8     | 38.9     | 39.8     | 40.2     | 40.2     | 40.2     | 40.2    | 40.2    | 40.5    | 40.5    | 41.1  |  |
| GE 8000   25.2        | 32.3                             | 33.1     | 36.0     | 37.3     | 38.4     | 39.4     | 40.3     | 40.8     | 40.8     | 40.8     | 40.8    | 41.0    | 41.0    | 41.0    | 41.7  |  |
| GE 7000   25.5        | 32.5                             | 33.3     | 36.4     | 37.6     | 38.8     | 39.8     | 40.7     | 41.1     | 41.1     | 41.1     | 41.1    | 41.4    | 41.4    | 41.4    | 42.0  |  |
| GE 6000   26.1        | 33.5                             | 34.4     | 37.7     | 39.1     | 40.5     | 41.6     | 42.5     | 43.0     | 43.0     | 43.0     | 43.0    | 43.2    | 43.2    | 43.2    | 43.9  |  |
| GE 5000   26.9        | 34.5                             | 35.7     | 39.3     | 40.9     | 42.3     | 43.6     | 44.5     | 45.0     | 45.0     | 45.0     | 45.0    | 45.2    | 45.2    | 45.2    | 45.9  |  |
| GE 4500   27.7        | 35.6                             | 36.8     | 40.5     | 42.0     | 43.5     | 44.9     | 45.8     | 46.3     | 46.3     | 46.3     | 46.3    | 46.6    | 46.6    | 46.6    | 47.3  |  |
| GE 4000   28.5        | 36.4                             | 37.7     | 41.4     | 43.0     | 44.4     | 45.8     | 46.7     | 47.2     | 47.2     | 47.3     | 47.3    | 47.5    | 47.5    | 47.5    | 48.2  |  |
| GE 3500   29.7        | 37.7                             | 39.2     | 42.8     | 44.4     | 45.9     | 47.3     | 48.2     | 48.6     | 48.6     | 48.6     | 48.6    | 49.0    | 49.0    | 49.0    | 49.7  |  |
| GE 3000   32.7        | 41.0                             | 42.9     | 46.8     | 48.4     | 49.9     | 51.3     | 52.5     | 53.0     | 53.0     | 53.1     | 53.1    | 53.3    | 53.3    | 53.3    | 54.0  |  |
| GE 2500   35.5        | 44.4                             | 46.4     | 50.5     | 52.0     | 53.5     | 54.9     | 56.4     | 57.2     | 57.2     | 57.3     | 57.4    | 57.6    | 57.6    | 57.6    | 58.3  |  |
| GE 2000   38.2        | 48.2                             | 50.3     | 55.5     | 57.4     | 58.9     | 60.3     | 61.9     | 62.8     | 63.2     | 63.3     | 63.4    | 63.9    | 63.9    | 63.9    | 64.5  |  |
| GE 1800   39.2        | 49.7                             | 51.8     | 57.2     | 59.2     | 60.7     | 62.3     | 63.9     | 64.8     | 65.2     | 65.3     | 65.5    | 65.6    | 65.9    | 65.9    | 66.6  |  |
| GE 1500   40.3        | 51.3                             | 53.6     | 59.2     | 61.9     | 63.5     | 65.1     | 66.9     | 68.0     | 68.4     | 68.5     | 68.6    | 68.8    | 69.1    | 69.1    | 69.8  |  |
| GE 1200   41.8        | 54.4                             | 57.0     | 63.3     | 66.6     | 68.2     | 69.9     | 72.0     | 73.3     | 73.8     | 73.9     | 74.0    | 74.1    | 74.4    | 74.4    | 75.1  |  |
| GE 1000   42.2        | 55.9                             | 58.8     | 65.7     | 69.0     | 70.6     | 72.3     | 74.9     | 76.3     | 76.7     | 76.9     | 77.0    | 77.4    | 77.4    | 77.4    | 78.1  |  |
| GE 9000   42.4        | 56.5                             | 59.8     | 67.0     | 70.3     | 71.9     | 73.6     | 76.5     | 78.0     | 78.4     | 79.5     | 78.6    | 79.8    | 79.8    | 79.8    | 79.8  |  |
| GE 800   42.7         | 57.0                             | 60.3     | 67.7     | 71.1     | 72.8     | 74.7     | 77.4     | 78.9     | 79.3     | 79.5     | 79.7    | 79.8    | 80.1    | 80.1    | 80.8  |  |
| GE 700   43.1         | 58.0                             | 61.6     | 69.4     | 73.0     | 74.7     | 76.6     | 79.7     | 81.1     | 81.8     | 82.0     | 82.2    | 82.3    | 82.6    | 82.6    | 83.3  |  |
| GE 600   43.2         | 59.0                             | 63.2     | 71.0     | 74.5     | 76.6     | 78.6     | 82.2     | 83.8     | 84.4     | 84.7     | 84.8    | 84.9    | 85.2    | 85.2    | 85.9  |  |
| GE 500   43.3         | 59.5                             | 63.9     | 71.9     | 75.7     | 77.8     | 80.2     | 84.4     | 86.1     | 86.9     | 87.2     | 87.3    | 87.4    | 87.7    | 87.7    | 88.4  |  |
| GE 400   43.6         | 60.1                             | 64.5     | 72.8     | 76.7     | 79.0     | 81.4     | 85.6     | 87.3     | 88.2     | 88.4     | 88.5    | 88.6    | 89.0    | 89.0    | 89.7  |  |
| GE 300   43.6         | 60.5                             | 64.9     | 73.4     | 77.8     | 79.3     | 83.0     | 87.3     | 89.2     | 90.2     | 90.6     | 90.7    | 90.8    | 91.1    | 91.1    | 91.8  |  |
| GE 200   43.6         | 60.6                             | 65.0     | 73.9     | 78.8     | 81.6     | 84.5     | 89.7     | 91.9     | 93.2     | 97.5     | 93.9    | 94.1    | 94.4    | 94.4    | 95.1  |  |
| GE 100   43.6         | 60.6                             | 65.0     | 73.9     | 78.8     | 81.8     | 84.9     | 90.2     | 92.0     | 94.7     | 95.1     | 95.5    | 95.8    | 96.3    | 96.3    | 97.2  |  |
| GE 0   43.6           | 60.6                             | 65.0     | 73.9     | 78.8     | 81.8     | 84.9     | 90.2     | 93.1     | 95.0     | 97.6     | 95.9    | 96.4    | 96.9    | 96.9    | 100.0 |  |

TOTAL NUMBER OF OBSERVATIONS: 880

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 76-87  
MONTH: JAN HOURS/LST: 0300-0500

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|
|                       | 51<br>167                        | GE<br>90 | GE<br>90 | GE<br>60 | GE<br>44 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GI<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>6 |  |  |
| NO CEIL               | 19.0                             | 23.1     | 24.0     | 25.1     | 26.7     | 26.4     | 27.3     | 29.1     | 29.2     | 29.2     | 29.2     | 29.2     | 29.3    | 29.6    | 29.6    | 30.5    |  |  |
| GE 20000              | 22.2                             | 27.6     | 28.7     | 30.5     | 31.8     | 32.2     | 33.4     | 35.5     | 35.7     | 35.7     | 35.7     | 35.7     | 35.9    | 36.4    | 36.6    | 37.3    |  |  |
| GE 18000              | 22.4                             | 27.8     | 29.0     | 30.8     | 32.0     | 32.4     | 33.7     | 35.7     | 35.9     | 35.9     | 35.9     | 35.9     | 36.1    | 36.6    | 36.6    | 37.5    |  |  |
| GE 16000              | 22.6                             | 27.9     | 29.1     | 30.9     | 32.1     | 32.5     | 33.8     | 35.8     | 36.0     | 36.0     | 36.0     | 36.0     | 36.3    | 36.7    | 36.7    | 37.6    |  |  |
| GE 14000              | 23.1                             | 28.5     | 29.6     | 31.4     | 32.7     | 33.1     | 34.3     | 36.5     | 36.7     | 36.7     | 36.7     | 36.7     | 36.9    | 37.4    | 37.4    | 38.3    |  |  |
| GE 12000              | 23.6                             | 29.4     | 30.5     | 32.3     | 33.6     | 34.0     | 35.2     | 37.4     | 37.6     | 37.6     | 37.6     | 37.6     | 38.3    | 38.3    | 39.6    |         |  |  |
| GE 10000              | 24.4                             | 30.6     | 31.9     | 33.7     | 34.9     | 35.5     | 36.7     | 38.8     | 39.1     | 39.1     | 39.1     | 39.1     | 39.5    | 39.7    | 39.7    | 40.6    |  |  |
| GE 9000               | 24.8                             | 31.3     | 32.5     | 34.3     | 35.6     | 36.1     | 37.4     | 39.7     | 40.0     | 40.0     | 40.0     | 40.0     | 40.2    | 40.6    | 40.6    | 41.5    |  |  |
| GE 8000               | 25.0                             | 31.5     | 32.8     | 34.6     | 35.8     | 36.4     | 37.6     | 40.0     | 40.2     | 40.2     | 40.2     | 40.2     | 40.4    | 40.9    | 40.9    | 41.8    |  |  |
| GE 7000               | 25.4                             | 31.9     | 33.1     | 34.9     | 36.1     | 36.7     | 37.9     | 40.3     | 40.5     | 40.5     | 40.5     | 40.5     | 40.7    | 41.2    | 41.2    | 42.1    |  |  |
| GE 6000               | 25.9                             | 32.7     | 33.9     | 35.7     | 36.9     | 37.6     | 38.8     | 41.2     | 41.4     | 41.4     | 41.4     | 41.4     | 41.6    | 42.1    | 42.1    | 43.0    |  |  |
| GE 5000               | 27.0                             | 34.1     | 35.4     | 37.5     | 38.9     | 39.6     | 41.0     | 43.3     | 43.5     | 43.5     | 43.5     | 43.5     | 43.7    | 43.9    | 44.3    | 45.2    |  |  |
| GE 4500               | 27.4                             | 34.6     | 35.8     | 37.9     | 39.4     | 40.1     | 41.5     | 44.0     | 44.2     | 44.2     | 44.2     | 44.2     | 44.4    | 44.8    | 45.2    | 46.4    |  |  |
| GE 4000               | 28.1                             | 35.5     | 36.7     | 38.8     | 40.4     | 41.1     | 42.5     | 45.0     | 45.3     | 45.3     | 45.3     | 45.3     | 45.6    | 45.9    | 46.4    | 47.5    |  |  |
| GE 3500               | 24.7                             | 36.3     | 37.5     | 39.8     | 41.4     | 42.1     | 43.7     | 46.1     | 46.4     | 46.4     | 46.4     | 46.4     | 46.7    | 47.0    | 47.5    | 48.6    |  |  |
| GE 3000               | 31.1                             | 39.2     | 40.7     | 43.2     | 44.9     | 45.6     | 47.3     | 49.8     | 50.3     | 50.3     | 50.3     | 50.3     | 51.0    | 51.5    | 51.6    | 52.6    |  |  |
| GE 2500               | 32.7                             | 41.2     | 42.8     | 45.6     | 47.3     | 47.9     | 49.6     | 52.2     | 52.6     | 52.7     | 52.9     | 53.0     | 53.3    | 53.9    | 54.0    | 55.0    |  |  |
| GE 2000               | 35.9                             | 45.6     | 47.3     | 50.6     | 52.6     | 53.3     | 55.0     | 57.6     | 58.0     | 58.1     | 58.2     | 58.5     | 58.9    | 59.6    | 59.7    | 60.8    |  |  |
| GE 1800               | 37.6                             | 48.0     | 49.8     | 53.4     | 55.4     | 56.1     | 57.8     | 60.4     | 60.9     | 61.1     | 61.2     | 61.4     | 61.8    | 62.5    | 62.6    | 63.7    |  |  |
| GE 1500               | 34.9                             | 50.6     | 52.6     | 56.3     | 58.9     | 59.9     | 61.6     | 64.4     | 65.1     | 65.3     | 65.4     | 65.7     | 66.1    | 66.8    | 66.9    | 68.0    |  |  |
| GE 1200               | 41.3                             | 55.1     | 57.5     | 61.7     | 64.9     | 65.9     | 67.6     | 70.6     | 71.4     | 71.6     | 71.7     | 71.9     | 72.5    | 73.2    | 73.3    | 74.4    |  |  |
| GE 1000               | 41.9                             | 56.9     | 59.6     | 64.4     | 67.7     | 68.7     | 70.4     | 73.4     | 74.3     | 74.5     | 74.6     | 74.9     | 75.6    | 76.1    | 76.2    | 77.3    |  |  |
| GE 900                | 42.4                             | 58.2     | 61.3     | 66.2     | 69.6     | 70.6     | 72.3     | 75.4     | 76.3     | 76.5     | 76.7     | 76.9     | 77.4    | 78.1    | 78.2    | 79.3    |  |  |
| GE 800                | 47.5                             | 58.7     | 62.0     | 67.2     | 70.9     | 71.9     | 73.6     | 77.2     | 78.1     | 78.5     | 79.6     | 79.8     | 79.3    | 80.0    | 81.1    | 81.3    |  |  |
| GE 700                | 42.8                             | 59.6     | 63.1     | 68.7     | 72.4     | 73.5     | 75.3     | 79.1     | 80.0     | 80.5     | 80.6     | 80.8     | 81.4    | 82.0    | 82.2    | 83.3    |  |  |
| GE 600                | 45.0                             | 60.4     | 64.2     | 69.9     | 73.6     | 75.0     | 77.0     | 80.8     | 81.9     | 82.5     | 82.6     | 83.4     | 84.2    | 84.3    | 85.4    |         |  |  |
| GE 500                | 45.1                             | 60.7     | 64.8     | 70.7     | 74.6     | 76.0     | 78.1     | 82.0     | 83.9     | 84.1     | 84.2     | 84.4     | 85.0    | 85.7    | 85.9    | 87.0    |  |  |
| GE 400                | 44.1                             | 61.3     | 65.7     | 71.8     | 76.0     | 77.3     | 79.6     | 83.7     | 85.1     | 86.0     | 86.1     | 86.3     | 86.9    | 87.7    | 87.8    | 88.9    |  |  |
| GE 300                | 43.1                             | 61.8     | 66.2     | 72.7     | 77.2     | 78.7     | 81.3     | 85.6     | 87.2     | 88.1     | 88.2     | 88.4     | 89.0    | 90.0    | 90.1    | 91.2    |  |  |
| GE 200                | 43.1                             | 61.8     | 66.2     | 72.8     | 77.4     | 79.6     | 82.5     | 87.5     | 89.2     | 90.3     | 90.6     | 91.1     | 91.7    | 92.7    | 92.8    | 94.1    |  |  |
| GE 100                | 43.1                             | 61.8     | 66.2     | 72.8     | 77.7     | 79.9     | 83.2     | 88.8     | 90.7     | 92.5     | 92.7     | 93.3     | 93.9    | 95.1    | 95.3    | 96.9    |  |  |
| GE 0                  | 43.1                             | 61.8     | 66.2     | 72.8     | 77.7     | 79.9     | 83.2     | 89.2     | 91.1     | 92.9     | 93.3     | 93.8     | 94.5    | 95.7    | 96.0    | 100.0   |  |  |

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 0600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | 51<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>49 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>6 | GE<br>4 | GE<br>3 |
| NO CEIL               | 21.4                             | 24.6     | 25.9     | 26.9     | 27.4     | 28.6     | 29.1     | 30.0     | 30.1     | 30.6     | 37.6     | 31.2    | 31.3    | 31.5    | 31.6    |
| GE                    | 20000                            | 24.2     | 28.6     | 29.8     | 30.9     | 31.9     | 33.1     | 33.7     | 35.1     | 35.3     | 36.8     | 36.3    | 36.4    | 36.8    | 37.1    |
| GF                    | 18000                            | 24.2     | 28.6     | 29.8     | 30.9     | 31.9     | 33.2     | 33.9     | 35.2     | 35.4     | 35.9     | 35.9    | 36.4    | 36.6    | 36.9    |
| GE                    | 16000                            | 24.4     | 28.8     | 30.0     | 31.2     | 32.2     | 33.4     | 34.1     | 35.4     | 35.7     | 36.1     | 36.1    | 36.4    | 37.1    | 37.4    |
| GE                    | 14000                            | 25.0     | 29.4     | 30.6     | 31.7     | 32.7     | 34.0     | 34.6     | 36.0     | 36.2     | 36.7     | 36.7    | 37.3    | 37.8    | 38.1    |
| GF                    | 12000                            | 25.9     | 30.6     | 31.8     | 33.0     | 34.0     | 35.3     | 36.0     | 37.3     | 37.6     | 38.0     | 38.6    | 38.7    | 39.1    | 39.6    |
| GE                    | 10000                            | 27.4     | 32.2     | 33.4     | 34.5     | 35.5     | 36.9     | 37.6     | 39.0     | 39.3     | 39.7     | 40.2    | 40.4    | 40.8    | 41.4    |
| GF                    | 9000                             | 27.9     | 32.8     | 34.2     | 35.3     | 36.3     | 37.7     | 38.4     | 39.8     | 40.0     | 40.5     | 40.5    | 41.1    | 41.6    | 42.4    |
| GF                    | 8000                             | 28.1     | 33.3     | 34.6     | 35.8     | 36.9     | 38.1     | 38.8     | 40.3     | 40.6     | 41.2     | 41.2    | 41.7    | 42.3    | 42.9    |
| GE                    | 7000                             | 28.1     | 33.3     | 34.6     | 35.8     | 36.8     | 38.1     | 38.8     | 40.3     | 40.6     | 41.2     | 41.2    | 41.7    | 42.3    | 42.9    |
| GF                    | 6000                             | 28.6     | 33.7     | 35.1     | 36.2     | 37.2     | 38.6     | 39.3     | 40.7     | 41.1     | 41.6     | 41.7    | 42.3    | 42.7    | 43.1    |
| GE                    | 5000                             | 29.4     | 35.1     | 36.4     | 37.8     | 38.8     | 40.3     | 40.9     | 42.4     | 42.9     | 43.4     | 43.4    | 44.0    | 44.5    | 45.1    |
| GF                    | 4500                             | 30.5     | 36.1     | 37.7     | 39.5     | 40.6     | 42.2     | 42.9     | 44.4     | 45.1     | 45.8     | 45.9    | 46.3    | 46.9    | 47.8    |
| GE                    | 4000                             | 31.5     | 37.7     | 39.5     | 41.6     | 42.9     | 44.6     | 45.1     | 46.7     | 47.4     | 48.0     | 48.0    | 48.6    | 49.2    | 50.2    |
| GE                    | 3500                             | 32.2     | 38.6     | 40.4     | 42.7     | 44.2     | 45.8     | 46.5     | 48.0     | 49.0     | 49.7     | 50.3    | 50.8    | 51.0    | 51.9    |
| GE                    | 3000                             | 33.6     | 40.7     | 42.7     | 45.4     | 46.9     | 48.5     | 49.2     | 50.8     | 52.0     | 52.8     | 53.0    | 53.4    | 54.0    | 54.9    |
| GF                    | 2500                             | 35.7     | 43.6     | 45.9     | 49.0     | 51.0     | 52.6     | 53.3     | 55.1     | 56.2     | 57.0     | 57.6    | 57.9    | 58.3    | 59.3    |
| GE                    | 2000                             | 39.3     | 47.9     | 51.2     | 53.7     | 56.0     | 57.9     | 58.8     | 60.6     | 61.9     | 62.8     | 62.9    | 63.3    | 64.2    | 65.4    |
| GE                    | 1800                             | 40.5     | 49.3     | 51.5     | 55.0     | 57.6     | 59.5     | 60.4     | 62.4     | 63.7     | 64.7     | 65.2    | 65.6    | 66.1    | 67.2    |
| GE                    | 1500                             | 41.3     | 51.2     | 53.9     | 57.6     | 60.4     | 62.5     | 64.4     | 65.5     | 66.7     | 68.1     | 68.7    | 69.1    | 69.6    | 70.6    |
| GE                    | 1200                             | 43.2     | 55.8     | 58.7     | 63.4     | 66.7     | 68.4     | 69.9     | 71.5     | 72.8     | 74.2     | 74.4    | 75.3    | 75.8    | 76.6    |
| GE                    | 1000                             | 43.8     | 57.1     | 60.1     | 64.9     | 68.1     | 70.5     | 71.7     | 73.8     | 75.0     | 76.6     | 76.7    | 77.3    | 78.3    | 79.3    |
| GE                    | 900                              | 44.3     | 58.4     | 61.3     | 66.5     | 70.1     | 72.7     | 73.8     | 75.9     | 77.2     | 78.7     | 79.9    | 79.8    | 80.5    | 81.4    |
| GF                    | 800                              | 44.8     | 59.5     | 62.5     | 67.8     | 71.4     | 74.1     | 75.4     | 77.5     | 78.7     | 80.3     | 80.4    | 81.0    | 82.0    | 83.0    |
| GF                    | 700                              | 44.9     | 60.1     | 63.2     | 68.6     | 72.2     | 75.0     | 76.8     | 78.7     | 80.0     | 81.7     | 81.8    | 82.3    | 82.7    | 83.5    |
| GF                    | 600                              | 45.0     | 60.7     | 64.1     | 69.9     | 73.7     | 76.8     | 78.3     | 80.9     | 82.1     | 83.8     | 87.0    | 84.5    | 85.6    | 86.7    |
| GE                    | 500                              | 45.6     | 61.3     | 65.7     | 70.9     | 74.8     | 77.8     | 79.3     | 81.9     | 83.1     | 84.8     | 84.9    | 85.5    | 85.8    | 87.0    |
| GE                    | 400                              | 45.6     | 61.8     | 65.1     | 71.4     | 75.6     | 78.7     | 80.2     | 82.9     | 84.4     | 86.2     | 86.7    | 86.8    | 87.2    | 88.4    |
| GE                    | 300                              | 45.6     | 62.2     | 65.6     | 72.3     | 76.7     | 80.2     | 81.8     | 84.7     | 86.4     | 88.4     | 89.1    | 89.4    | 90.6    | 91.6    |
| GF                    | 200                              | 45.6     | 62.3     | 65.7     | 72.7     | 77.4     | 81.0     | 82.7     | 86.1     | 88.0     | 90.1     | 97.0    | 91.0    | 91.5    | 92.6    |
| GF                    | 100                              | 45.6     | 62.3     | 65.7     | 72.7     | 77.4     | 81.1     | 82.9     | 86.7     | 89.1     | 91.7     | 92.1    | 92.8    | 93.3    | 94.4    |
| GE                    | 81                               | 45.6     | 62.3     | 65.7     | 72.7     | 77.4     | 81.2     | 83.0     | 86.8     | 89.2     | 91.8     | 92.6    | 93.4    | 94.0    | 95.5    |
| GE                    | 61                               | 45.6     | 62.3     | 65.7     | 72.7     | 77.4     | 81.2     | 83.0     | 86.8     | 89.2     | 91.8     | 92.6    | 93.4    | 94.0    | 95.8    |
| GE                    | 41                               | 45.6     | 62.3     | 65.7     | 72.7     | 77.4     | 81.2     | 83.0     | 86.8     | 89.2     | 91.8     | 92.6    | 93.4    | 94.0    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 889

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
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**PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS**

STATION NUMBER: 037460 STATION NAME: WOLCOM & DOWN UK

PERIOD OF RECORD: 74-87  
MONTH: JAN HOURS/STATION: 0900-1100

TOTAL NUMBER OF OBSERVATIONS: 880

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOISCOMIE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 1200-1400

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |
|----------|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| IN       | FT   | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   |   |
| FEET     |      | 160                              | 80   | 30   | 60   | 40   | 84   | 96   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 3    | 2    | 1 |
| NO CEIL  | 160  | 21.6                             | 27.6 | 23.6 | 29.0 | 16.5 | 24.5 | 24.6 | 24.6 | 24.6 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 |   |
| GE 10000 | 23.6 | 30.5                             | 31.6 | 33.3 | 33.7 | 34.3 | 34.9 | 35.0 | 35.1 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 |   |
| GE 10001 | 23.6 | 30.7                             | 31.4 | 33.5 | 34.1 | 34.7 | 35.2 | 35.3 | 35.4 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |   |
| GE 10001 | 24.6 | 30.7                             | 31.6 | 33.5 | 34.1 | 34.7 | 35.2 | 35.3 | 35.4 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 |   |
| GE 10001 | 24.7 | 31.2                             | 32.3 | 34.0 | 34.5 | 35.3 | 35.2 | 36.0 | 36.1 | 36.2 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 |   |
| GE 12000 | 24.8 | 32.3                             | 32.4 | 35.1 | 35.8 | 36.5 | 36.5 | 37.0 | 37.5 | 37.6 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 |   |
| GE 12001 | 26.1 | 33.9                             | 35.0 | 36.8 | 37.5 | 38.1 | 38.1 | 39.2 | 39.3 | 39.4 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 |   |
| GE 12001 | 26.9 | 30.9                             | 31.6 | 38.0 | 38.7 | 39.6 | 39.4 | 40.5 | 40.6 | 40.7 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 |   |
| GE 12001 | 27.0 | 35.1                             | 36.2 | 38.4 | 39.1 | 39.7 | 39.7 | 40.9 | 41.0 | 41.1 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 |   |
| GE 12001 | 27.0 | 75.1                             | 36.2 | 38.4 | 39.1 | 39.7 | 39.7 | 40.9 | 41.0 | 41.1 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 |   |
| GE 12001 | 27.1 | 35.3                             | 36.6 | 38.9 | 39.7 | 40.4 | 40.4 | 41.8 | 42.0 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 |   |
| GE 20001 | 27.9 | 36.6                             | 37.9 | 40.4 | 41.9 | 42.0 | 43.3 | 43.5 | 43.6 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 |   |
| GE 45301 | 28.8 | 38.5                             | 39.6 | 42.4 | 43.5 | 44.1 | 44.2 | 46.0 | 46.5 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 |   |
| GE 46301 | 30.0 | 39.2                             | 41.1 | 40.1 | 45.3 | 46.0 | 46.2 | 48.3 | 48.8 | 49.2 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 |   |
| GE 30001 | 30.5 | 40.5                             | 41.9 | 45.1 | 46.3 | 47.1 | 47.2 | 49.3 | 49.9 | 50.3 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 |   |
| GE 30001 | 32.1 | 43.1                             | 44.7 | 46.1 | 49.7 | 50.1 | 50.2 | 52.5 | 53.2 | 53.7 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 | 54.0 |   |
| GE 25001 | 35.0 | 45.8                             | 47.5 | 50.9 | 52.3 | 53.2 | 53.2 | 55.5 | 56.3 | 56.9 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 |   |
| GE 25001 | 39.3 | 51.0                             | 52.9 | 56.3 | 57.7 | 58.7 | 58.8 | 61.2 | 62.0 | 62.5 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 |   |
| GE 12001 | 41.1 | 52.6                             | 54.7 | 58.2 | 59.7 | 60.8 | 60.9 | 63.4 | 64.2 | 64.8 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 |   |
| GE 12001 | 42.2 | 55.8                             | 57.9 | 61.5 | 63.0 | 64.2 | 64.4 | 67.2 | 68.1 | 68.6 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 | 69.0 |   |
| GE 12001 | 44.0 | 60.9                             | 63.5 | 67.9 | 70.0 | 71.2 | 71.6 | 74.3 | 75.2 | 75.7 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 |   |
| GE 12001 | 47.6 | 63.9                             | 67.1 | 71.9 | 74.0 | 75.4 | 76.1 | 79.0 | 79.9 | 80.5 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 |   |
| GE 4001  | 47.7 | 66.6                             | 67.7 | 72.7 | 75.1 | 76.5 | 77.2 | 80.1 | 81.2 | 81.7 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 |   |
| GE 4001  | 48.1 | 65.2                             | 68.7 | 73.8 | 76.4 | 77.9 | 78.6 | 81.5 | 82.5 | 83.1 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 |   |
| GE 7001  | 48.2 | 65.8                             | 69.4 | 75.2 | 77.9 | 79.2 | 79.9 | 83.0 | 84.0 | 84.8 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 |   |
| GE 6101  | 48.3 | 66.7                             | 70.4 | 76.4 | 79.7 | 80.8 | 81.5 | 84.9 | 86.0 | 86.9 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 | 87.6 |   |
| GE 7101  | 48.4 | 66.8                             | 70.8 | 77.2 | 80.1 | 81.9 | 82.6 | 86.1 | 87.2 | 88.1 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 |   |
| GE 4001  | 48.5 | 67.4                             | 71.2 | 76.6 | 82.1 | 84.2 | 84.9 | 88.7 | 90.1 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 |   |
| GE 4001  | 48.6 | 67.4                             | 71.6 | 79.3 | 83.1 | 85.6 | 86.7 | 90.5 | 92.1 | 93.1 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 |   |
| GE 12001 | 48.7 | 67.4                             | 71.6 | 79.3 | 83.3 | 85.9 | 87.2 | 91.1 | 92.8 | 93.9 | 95.0 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 | 95.3 |   |
| GE 12001 | 48.8 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 |   |
| GE 12001 | 48.9 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 |   |
| GE 12001 | 49.0 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 |   |
| GE 12001 | 49.1 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 49.2 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 49.3 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 49.4 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 49.5 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 49.6 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 49.7 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 49.8 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 49.9 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 50.0 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 50.1 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 50.2 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 50.3 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 50.4 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 50.5 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 50.6 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 50.7 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 50.8 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 50.9 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 51.0 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 | 97.4 |   |
| GE 12001 | 51.1 | 67.4                             | 71.6 | 79.5 | 83.7 | 86.1 | 87.5 | 91.5 | 93.3 | 95.0 | 97.4 | 97.4 |      |      |      |      |      |      |      |   |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 1500-1700

| CEILING |      | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |  |
|---------|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|--|
| IN      | FEET | 160                              | 90   | 80   | 60   | 40   | 30   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | GE    | GE   |      |  |
| NO CEIL | 20.6 | 24.9                             | 25.3 | 26.5 | 27.2 | 27.8 | 28.0 | 28.4 | 28.4 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5  | 28.5 |      |  |
| GE 2000 | 26.7 | 32.8                             | 33.6 | 35.1 | 36.1 | 36.8 | 37.2 | 38.0 | 38.0 | 38.1 | 38.1 | 38.1 | 38.1 | 38.1 | 38.1 | 38.1  | 38.1 | 38.1 |  |
| GE 1800 | 26.5 | 33.0                             | 33.7 | 35.2 | 36.2 | 36.9 | 37.3 | 38.1 | 38.1 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2  | 38.2 | 38.2 |  |
| GE 1600 | 26.6 | 33.1                             | 33.9 | 35.3 | 36.3 | 37.0 | 37.4 | 38.2 | 38.2 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3  | 38.3 | 38.3 |  |
| GE 1400 | 27.2 | 33.9                             | 34.6 | 36.1 | 37.1 | 37.8 | 38.2 | 39.0 | 39.0 | 39.1 | 39.1 | 39.1 | 39.1 | 39.1 | 39.1 | 39.1  | 39.1 | 39.1 |  |
| GE 1200 | 28.1 | 35.3                             | 36.1 | 37.6 | 38.6 | 39.3 | 39.8 | 40.6 | 40.6 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7  | 40.7 | 40.7 |  |
| GE 1000 | 29.3 | 36.9                             | 37.7 | 39.2 | 40.4 | 41.1 | 41.6 | 42.4 | 42.4 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5  | 42.5 | 42.5 |  |
| GE 900  | 30.0 | 37.7                             | 38.5 | 40.4 | 41.5 | 42.3 | 42.7 | 43.5 | 43.5 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6  | 43.6 | 43.6 |  |
| GE 800  | 30.2 | 37.8                             | 38.6 | 40.5 | 41.6 | 42.4 | 42.8 | 43.6 | 43.6 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7  | 43.7 | 43.7 |  |
| GE 700  | 30.4 | 38.0                             | 38.8 | 40.7 | 41.8 | 42.6 | 43.0 | 43.8 | 43.8 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9  | 43.9 | 43.9 |  |
| GE 600  | 30.5 | 38.2                             | 39.0 | 40.9 | 42.0 | 42.8 | 43.3 | 44.1 | 44.1 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2  | 44.2 | 44.2 |  |
| GE 500  | 31.5 | 39.5                             | 40.4 | 42.6 | 43.7 | 44.5 | 45.1 | 45.9 | 45.9 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0  | 46.0 | 46.0 |  |
| GE 4500 | 32.1 | 40.4                             | 41.3 | 43.8 | 45.0 | 45.9 | 46.4 | 47.2 | 47.2 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3  | 47.3 | 47.3 |  |
| GE 4000 | 37.1 | 41.9                             | 42.4 | 45.4 | 46.6 | 47.5 | 48.2 | 49.4 | 49.4 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6  | 49.6 | 49.6 |  |
| GE 3500 | 33.6 | 42.6                             | 43.5 | 46.2 | 47.4 | 48.0 | 49.1 | 50.3 | 50.3 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4 | 50.4  | 50.4 | 50.4 |  |
| GE 3000 | 35.9 | 45.1                             | 46.1 | 49.2 | 50.4 | 51.5 | 52.1 | 53.4 | 53.4 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5 | 53.5  | 53.5 | 53.5 |  |
| GE 2500 | 34.6 | 49.0                             | 50.2 | 53.8 | 55.0 | 56.0 | 57.2 | 58.5 | 58.5 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6  | 58.6 | 58.6 |  |
| GE 2000 | 41.4 | 53.4                             | 55.6 | 59.1 | 60.7 | 61.7 | 62.4 | 63.9 | 63.9 | 64.0 | 64.0 | 64.0 | 64.0 | 64.0 | 64.0 | 64.0  | 64.0 | 64.0 |  |
| GE 1800 | 42.6 | 55.0                             | 57.1 | 61.2 | 62.7 | 64.0 | 64.8 | 66.3 | 66.3 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4  | 66.4 | 66.4 |  |
| GE 1500 | 48.6 | 58.1                             | 60.3 | 64.8 | 66.6 | 67.9 | 68.7 | 70.3 | 70.3 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4  | 70.4 | 70.4 |  |
| GE 1200 | 46.7 | 61.9                             | 64.2 | 69.8 | 72.7 | 73.5 | 74.6 | 76.5 | 76.5 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7  | 76.7 | 76.7 |  |
| GE 1000 | 48.0 | 67.2                             | 73.0 | 75.8 | 77.1 | 78.1 | 80.3 | 80.6 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7  | 80.7 | 80.7 |  |
| GE 900  | 48.3 | 65.4                             | 68.8 | 74.8 | 77.7 | 79.1 | 80.3 | 82.4 | 82.7 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8  | 82.8 | 82.8 |  |
| GE 800  | 48.5 | 66.3                             | 69.7 | 75.9 | 78.4 | 80.3 | 81.4 | 83.6 | 84.1 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2  | 84.2 | 84.2 |  |
| GE 700  | 48.9 | 67.5                             | 71.1 | 77.6 | 80.6 | 82.2 | 83.3 | 85.7 | 86.1 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2  | 86.2 | 86.2 |  |
| GE 600  | 49.1 | 68.4                             | 72.0 | 78.7 | 81.7 | 83.3 | 84.8 | 87.3 | 87.9 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0  | 88.0 | 88.0 |  |
| GE 500  | 49.1 | 68.6                             | 72.4 | 79.3 | 83.2 | 85.1 | 86.5 | 89.2 | 89.8 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9  | 89.9 | 89.9 |  |
| GE 400  | 49.2 | 68.8                             | 72.5 | 79.5 | 83.7 | 85.9 | 87.7 | 90.7 | 91.4 | 91.6 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7  | 91.7 | 91.7 |  |
| GE 300  | 49.3 | 68.9                             | 73.0 | 80.2 | 84.8 | 87.8 | 89.2 | 92.6 | 93.6 | 94.1 | 94.3 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4  | 94.4 | 94.4 |  |
| GE 200  | 49.3 | 68.9                             | 73.0 | 80.4 | 85.1 | 87.9 | 89.8 | 93.5 | 94.5 | 95.3 | 95.7 | 95.9 | 96.1 | 96.3 | 96.3 | 96.3  | 96.3 | 96.3 |  |
| GE 100  | 49.3 | 68.9                             | 73.0 | 80.5 | 85.2 | 88.1 | 90.0 | 93.8 | 95.0 | 96.1 | 96.6 | 96.9 | 97.3 | 97.6 | 97.6 | 97.6  | 97.6 | 97.6 |  |
| GE 0    | 49.3 | 68.9                             | 73.0 | 80.5 | 85.7 | 88.1 | 90.0 | 93.8 | 95.0 | 96.1 | 96.6 | 96.9 | 97.6 | 98.5 | 99.1 | 100.0 |      |      |  |

TOTAL NUMBER OF OBSERVATIONS: 992

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 1800-2000

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>40 | GE<br>60 | GE<br>49 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 19.2                             | 24.3     | 25.3     | 26.9     | 28.6     | 29.3     | 30.2     | 30.7     | 30.8     | 31.1     | 31.1     | 31.1     | 31.1    | 31.2    | 31.2    | 31.2    |
| GE 2000               | 23.4                             | 30.7     | 32.0     | 34.0     | 36.0     | 36.7     | 37.6     | 38.3     | 38.5     | 38.7     | 38.7     | 38.7     | 38.7    | 38.8    | 38.8    | 38.8    |
| GE 1800               | 23.4                             | 30.7     | 32.0     | 34.0     | 36.0     | 36.7     | 37.6     | 38.3     | 38.5     | 38.7     | 38.7     | 38.7     | 38.7    | 38.8    | 38.8    | 38.8    |
| GE 1600               | 23.4                             | 30.7     | 32.0     | 34.0     | 36.0     | 36.7     | 37.6     | 38.3     | 38.5     | 38.7     | 38.7     | 38.7     | 38.7    | 38.8    | 38.8    | 38.8    |
| GE 1400               | 24.1                             | 31.4     | 32.7     | 34.9     | 36.9     | 37.6     | 38.5     | 39.2     | 39.3     | 39.6     | 39.6     | 39.6     | 39.6    | 39.7    | 39.7    | 39.7    |
| GE 1200               | 25.0                             | 33.2     | 34.8     | 37.0     | 39.0     | 39.7     | 40.6     | 41.4     | 41.5     | 41.7     | 41.7     | 41.7     | 41.7    | 41.8    | 41.8    | 41.8    |
| GE 1000               | 26.7                             | 35.4     | 37.0     | 39.2     | 41.3     | 41.9     | 43.0     | 43.9     | 44.1     | 44.3     | 44.3     | 44.3     | 44.3    | 44.4    | 44.4    | 44.4    |
| GE 900                | 27.1                             | 36.0     | 37.6     | 39.8     | 41.8     | 42.5     | 43.6     | 44.5     | 44.6     | 44.8     | 44.8     | 44.8     | 44.8    | 45.0    | 45.0    | 45.0    |
| GE 800                | 27.2                             | 36.1     | 37.7     | 39.9     | 41.9     | 42.6     | 43.7     | 44.6     | 44.7     | 45.0     | 45.0     | 45.0     | 45.0    | 45.1    | 45.1    | 45.1    |
| GE 700                | 27.2                             | 36.1     | 37.7     | 39.9     | 41.9     | 42.6     | 43.7     | 44.6     | 44.7     | 45.0     | 45.0     | 45.0     | 45.0    | 45.1    | 45.1    | 45.1    |
| GE 6000               | 27.2                             | 36.2     | 37.8     | 40.0     | 42.0     | 42.7     | 43.8     | 44.7     | 44.8     | 45.1     | 45.1     | 45.1     | 45.1    | 45.2    | 45.2    | 45.2    |
| GE 5000               | 28.5                             | 37.6     | 39.3     | 41.6     | 43.6     | 44.3     | 45.4     | 46.5     | 46.6     | 47.1     | 47.1     | 47.1     | 47.1    | 47.2    | 47.2    | 47.2    |
| GE 4500               | 28.6                             | 37.8     | 39.6     | 41.8     | 44.1     | 45.0     | 46.1     | 47.4     | 47.5     | 48.0     | 48.0     | 48.0     | 48.0    | 48.1    | 48.1    | 48.1    |
| GE 4000               | 29.0                             | 38.5     | 40.4     | 42.6     | 44.8     | 45.9     | 47.0     | 48.4     | 48.5     | 49.0     | 49.0     | 49.0     | 49.0    | 49.1    | 49.1    | 49.1    |
| GE 3500               | 30.2                             | 40.0     | 41.9     | 44.3     | 46.5     | 47.5     | 48.7     | 50.1     | 50.2     | 50.7     | 50.7     | 50.7     | 50.8    | 50.9    | 50.9    | 50.9    |
| GE 3000               | 31.8                             | 42.9     | 44.6     | 47.8     | 50.1     | 51.1     | 52.2     | 53.7     | 53.8     | 54.3     | 54.3     | 54.3     | 54.4    | 54.5    | 54.5    | 54.5    |
| GE 2500               | 34.6                             | 45.6     | 48.0     | 51.3     | 53.7     | 54.9     | 56.0     | 57.8     | 58.0     | 58.4     | 58.4     | 58.4     | 58.5    | 58.6    | 58.6    | 58.6    |
| GE 2000               | 36.2                             | 48.5     | 51.2     | 55.4     | 58.0     | 59.4     | 61.0     | 62.4     | 63.0     | 63.0     | 63.0     | 63.0     | 63.1    | 63.2    | 63.2    | 63.2    |
| GE 1800               | 37.8                             | 50.6     | 53.3     | 57.8     | 60.5     | 62.0     | 63.6     | 65.0     | 65.1     | 65.6     | 65.6     | 65.6     | 65.7    | 65.8    | 65.8    | 65.8    |
| GE 1500               | 39.1                             | 52.1     | 55.3     | 60.8     | 63.7     | 65.2     | 66.8     | 68.3     | 68.5     | 68.9     | 68.9     | 68.9     | 69.1    | 69.2    | 69.2    | 69.2    |
| GE 1200               | 41.6                             | 56.7     | 60.1     | 66.5     | 70.1     | 71.9     | 73.0     | 75.2     | 75.7     | 76.1     | 76.1     | 76.1     | 76.2    | 76.3    | 76.3    | 76.3    |
| GE 1000               | 42.3                             | 57.7     | 61.3     | 68.5     | 72.2     | 74.2     | 76.7     | 78.1     | 78.6     | 79.1     | 79.1     | 79.1     | 79.3    | 79.4    | 79.4    | 79.4    |
| GE 900                | 42.5                             | 58.2     | 62.0     | 69.3     | 73.2     | 75.3     | 77.2     | 79.6     | 80.0     | 80.6     | 80.6     | 80.6     | 80.7    | 80.8    | 80.8    | 80.8    |
| GE 800                | 42.6                             | 58.7     | 62.8     | 70.2     | 74.1     | 76.3     | 78.4     | 81.2     | 81.6     | 82.2     | 82.3     | 82.3     | 82.4    | 82.5    | 82.5    | 82.5    |
| GE 700                | 43.2                             | 60.0     | 64.1     | 72.1     | 76.7     | 78.9     | 81.1     | 84.2     | 84.6     | 85.2     | 85.3     | 85.3     | 85.4    | 85.5    | 85.5    | 85.5    |
| GE 600                | 43.5                             | 61.2     | 65.5     | 73.5     | 77.5     | 80.4     | 82.5     | 86.1     | 86.5     | 87.2     | 87.3     | 87.3     | 87.4    | 87.6    | 87.6    | 87.6    |
| GE 500                | 43.7                             | 61.8     | 66.1     | 74.4     | 78.5     | 81.6     | 83.7     | 87.6     | 88.1     | 88.8     | 88.9     | 88.9     | 89.0    | 89.1    | 89.1    | 89.1    |
| GE 400                | 43.9                             | 62.4     | 66.8     | 75.7     | 79.9     | 83.2     | 85.5     | 89.6     | 90.4     | 91.0     | 91.1     | 91.3     | 91.4    | 91.5    | 91.5    | 91.5    |
| GE 300                | 44.1                             | 62.8     | 67.3     | 76.5     | 80.9     | 84.2     | 86.9     | 91.3     | 92.2     | 93.0     | 93.2     | 93.3     | 93.4    | 93.5    | 93.5    | 93.5    |
| GE 200                | 44.1                             | 62.8     | 67.3     | 76.5     | 81.2     | 84.9     | 87.6     | 92.6     | 93.8     | 95.2     | 95.4     | 95.5     | 95.6    | 95.7    | 95.7    | 95.7    |
| GE 100                | 44.1                             | 62.8     | 67.3     | 76.5     | 81.2     | 85.1     | 87.8     | 93.2     | 94.6     | 96.4     | 96.9     | 97.0     | 97.3    | 97.5    | 97.5    | 97.5    |
| GE 0                  | 44.1                             | 62.8     | 67.3     | 76.5     | 81.2     | 85.1     | 87.9     | 93.3     | 94.7     | 96.7     | 97.3     | 97.4     | 97.9    | 98.3    | 98.7    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 892

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): 2100-2300

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>90 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |
| NO CETL               | 18.6                             | 23.8     | 25.4     | 27.8     | 28.7     | 29.4     | 29.9     | 30.3     | 30.4     | 30.5     | 30.8     | 30.8    | 31.5    | 31.8    | 31.9    |       |
| GE 20000              | 22.4                             | 29.5     | 31.1     | 34.0     | 35.1     | 35.9     | 36.5     | 36.8     | 36.9     | 37.1     | 37.4     | 37.4    | 38.1    | 38.3    | 38.4    |       |
| UE 18000              | 22.5                             | 29.6     | 31.2     | 34.1     | 35.3     | 36.0     | 36.6     | 36.9     | 37.1     | 37.2     | 37.5     | 37.5    | 38.2    | 38.4    | 38.5    |       |
| GE 16000              | 22.5                             | 29.6     | 31.2     | 34.1     | 35.3     | 36.0     | 36.6     | 36.9     | 37.1     | 37.2     | 37.5     | 37.5    | 38.2    | 38.4    | 38.5    |       |
| GE 14000              | 22.6                             | 29.9     | 31.5     | 34.5     | 35.6     | 36.4     | 36.9     | 37.3     | 37.4     | 37.5     | 37.9     | 37.9    | 38.5    | 38.8    | 38.9    |       |
| GE 12000              | 22.9                             | 30.6     | 32.2     | 35.4     | 36.5     | 37.3     | 37.9     | 38.2     | 38.3     | 38.4     | 38.8     | 38.8    | 39.4    | 39.7    | 39.8    |       |
| GE 10000              | 23.8                             | 32.5     | 34.1     | 37.5     | 38.9     | 40.0     | 40.6     | 40.9     | 41.0     | 41.1     | 41.5     | 41.5    | 42.1    | 42.4    | 42.5    |       |
| GE 9000               | 24.2                             | 33.0     | 34.6     | 38.2     | 39.7     | 40.8     | 41.4     | 41.7     | 41.9     | 42.0     | 42.4     | 42.4    | 43.1    | 43.3    | 43.4    |       |
| GE 8000               | 24.2                             | 33.0     | 34.6     | 38.2     | 39.7     | 40.8     | 41.4     | 41.7     | 41.9     | 42.0     | 42.4     | 42.4    | 43.1    | 43.3    | 43.4    |       |
| GE 7000               | 24.8                             | 33.2     | 34.8     | 38.4     | 39.9     | 41.0     | 41.6     | 41.9     | 42.1     | 42.3     | 42.6     | 42.6    | 43.3    | 43.5    | 43.6    |       |
| GE 6000               | 24.5                             | 33.4     | 35.0     | 38.8     | 40.2     | 41.4     | 41.9     | 42.3     | 42.6     | 42.7     | 42.9     | 43.1    | 43.7    | 44.0    | 44.1    |       |
| GE 5000               | 25.3                             | 34.5     | 36.2     | 40.1     | 41.8     | 42.9     | 43.6     | 44.1     | 44.4     | 44.5     | 44.9     | 45.0    | 45.0    | 45.6    | 45.9    | 46.0  |
| UE 4500               | 25.8                             | 35.1     | 36.7     | 41.0     | 42.7     | 43.8     | 44.6     | 45.3     | 45.6     | 45.8     | 46.1     | 46.2    | 46.2    | 46.9    | 47.1    | 47.2  |
| GE 4000               | 26.2                             | 35.9     | 37.7     | 41.8     | 43.5     | 44.7     | 45.5     | 46.2     | 46.6     | 46.7     | 47.0     | 47.1    | 47.1    | 47.8    | 48.0    | 48.1  |
| GF 3500               | 27.0                             | 37.1     | 38.9     | 42.9     | 44.6     | 45.9     | 46.7     | 47.3     | 47.8     | 48.0     | 48.4     | 48.5    | 48.5    | 49.2    | 49.4    | 49.5  |
| GE 3000               | 28.5                             | 39.5     | 41.4     | 45.9     | 47.6     | 48.8     | 49.6     | 50.4     | 51.0     | 51.2     | 51.5     | 51.6    | 52.3    | 52.5    | 52.7    |       |
| GE 2500               | 30.3                             | 42.7     | 48.6     | 49.6     | 51.5     | 52.8     | 53.6     | 54.4     | 54.9     | 55.1     | 55.5     | 55.6    | 56.3    | 56.5    | 56.6    |       |
| GE 2000               | 33.6                             | 47.0     | 49.9     | 55.4     | 57.7     | 59.2     | 60.2     | 61.1     | 61.7     | 62.0     | 62.4     | 62.5    | 63.2    | 63.4    | 63.5    |       |
| GF 1800               | 34.5                             | 48.2     | 51.2     | 56.6     | 59.1     | 60.6     | 61.6     | 62.5     | 63.1     | 63.4     | 63.8     | 64.0    | 64.0    | 64.6    | 64.9    | 65.0  |
| GE 1500               | 36.7                             | 51.2     | 54.4     | 60.5     | 63.2     | 64.6     | 65.6     | 66.7     | 67.2     | 67.7     | 68.1     | 68.2    | 68.2    | 68.9    | 69.2    | 69.3  |
| GE 1200               | 38.3                             | 54.0     | 57.3     | 64.5     | 67.6     | 69.2     | 70.3     | 72.0     | 72.7     | 73.1     | 73.6     | 73.7    | 74.4    | 74.6    | 74.7    |       |
| GF 1000               | 38.9                             | 55.8     | 59.4     | 67.3     | 70.5     | 72.2     | 73.3     | 75.4     | 76.0     | 76.6     | 77.1     | 77.2    | 77.2    | 77.9    | 78.1    | 78.2  |
| UF 900                | 39.1                             | 56.6     | 60.5     | 68.6     | 71.9     | 73.8     | 75.3     | 77.4     | 78.2     | 78.8     | 79.2     | 79.3    | 79.3    | 80.0    | 80.2    | 80.3  |
| GE 800                | 39.2                             | 57.6     | 61.7     | 69.9     | 73.3     | 75.6     | 77.1     | 79.2     | 80.0     | 80.7     | 81.1     | 81.2    | 81.2    | 81.9    | 82.1    | 82.3  |
| GE 700                | 39.2                             | 58.2     | 62.5     | 71.0     | 74.6     | 77.3     | 79.8     | 81.1     | 82.0     | 82.7     | 83.2     | 83.3    | 83.3    | 84.0    | 84.3    | 84.4  |
| GE 600                | 39.2                             | 58.6     | 63.2     | 71.6     | 75.3     | 78.1     | 79.7     | 82.1     | 83.1     | 83.7     | 84.2     | 84.3    | 84.3    | 85.0    | 85.3    | 85.4  |
| GE 500                | 39.2                             | 59.1     | 63.8     | 72.7     | 76.4     | 79.2     | 81.1     | 84.0     | 85.0     | 85.8     | 86.2     | 86.3    | 87.0    | 87.3    | 87.5    |       |
| GF 400                | 39.5                             | 59.5     | 64.5     | 73.4     | 77.3     | 80.3     | 82.5     | 85.8     | 87.0     | 87.9     | 88.4     | 88.5    | 88.5    | 89.2    | 89.5    | 89.6  |
| GE 300                | 39.4                             | 60.1     | 65.1     | 74.2     | 78.1     | 81.5     | 83.6     | 87.5     | 88.7     | 89.8     | 90.3     | 90.4    | 90.4    | 91.1    | 91.4    | 91.5  |
| GF 200                | 39.9                             | 60.2     | 65.3     | 74.7     | 78.9     | 82.5     | 85.1     | 89.6     | 91.0     | 92.2     | 92.7     | 92.8    | 93.0    | 93.7    | 94.0    | 94.1  |
| GE 100                | 40.0                             | 60.3     | 65.4     | 74.8     | 79.0     | 82.7     | 85.5     | 90.8     | 92.7     | 94.0     | 94.7     | 94.8    | 95.1    | 95.8    | 96.3    | 96.6  |
| GE                    | 40.0                             | 60.3     | 65.4     | 74.8     | 79.0     | 82.7     | 85.5     | 91.1     | 92.9     | 94.4     | 95.0     | 95.1    | 95.5    | 96.5    | 97.2    | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 885

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 18.9                             | 23.4     | 24.3     | 25.9     | 26.8     | 27.3     | 27.9     | 28.6     | 28.7     | 28.8     | 28.9     | 28.9     | 29.0    | 29.2    | 29.2    | 29.6    |
| GE 20000              | 23.5                             | 29.6     | 30.7     | 32.7     | 33.7     | 34.5     | 35.1     | 36.1     | 36.3     | 36.4     | 36.5     | 36.6     | 36.6    | 37.0    | 37.0    | 37.4    |
| GE 18000              | 23.7                             | 29.8     | 30.9     | 32.8     | 33.9     | 34.6     | 35.3     | 36.3     | 36.6     | 36.7     | 36.8     | 36.8     | 37.2    | 37.2    | 37.6    |         |
| GE 16000              | 23.8                             | 29.9     | 30.9     | 32.9     | 34.0     | 34.7     | 35.4     | 36.4     | 36.6     | 36.7     | 36.8     | 36.9     | 37.3    | 37.3    | 37.7    |         |
| GE 14000              | 24.2                             | 30.4     | 31.5     | 33.5     | 34.6     | 35.3     | 36.0     | 37.1     | 37.2     | 37.4     | 37.4     | 37.6     | 37.9    | 38.0    | 38.3    |         |
| GE 12000              | 25.1                             | 31.7     | 32.8     | 34.8     | 35.9     | 36.7     | 37.4     | 38.5     | 38.6     | 38.8     | 38.9     | 39.0     | 39.4    | 39.4    | 39.8    |         |
| GE 10000              | 26.2                             | 33.4     | 34.6     | 36.7     | 37.8     | 38.7     | 39.4     | 40.5     | 40.7     | 40.9     | 41.0     | 41.1     | 41.4    | 41.5    | 41.9    |         |
| GE 9000               | 26.8                             | 34.1     | 35.3     | 37.5     | 38.7     | 39.6     | 40.3     | 41.5     | 41.6     | 41.8     | 41.9     | 42.0     | 42.0    | 42.4    | 42.4    | 42.8    |
| GE 8000               | 27.0                             | 34.3     | 35.5     | 37.8     | 39.0     | 39.9     | 40.6     | 41.8     | 42.0     | 42.1     | 42.2     | 42.3     | 42.4    | 42.7    | 42.7    | 43.1    |
| GE 7000               | 27.1                             | 34.5     | 35.7     | 37.9     | 39.2     | 40.1     | 40.8     | 41.9     | 42.1     | 42.3     | 42.4     | 42.5     | 42.5    | 42.9    | 42.9    | 43.3    |
| GE 6000               | 27.4                             | 34.9     | 36.1     | 38.4     | 39.7     | 40.6     | 41.4     | 42.6     | 42.8     | 43.0     | 43.0     | 43.1     | 43.2    | 43.5    | 43.6    | 44.0    |
| GE 5000               | 28.2                             | 36.1     | 37.4     | 39.9     | 41.3     | 42.2     | 43.0     | 44.3     | 44.5     | 44.7     | 44.8     | 44.9     | 45.0    | 45.3    | 45.4    | 45.8    |
| GE 4500               | 28.8                             | 37.6     | 38.4     | 41.1     | 42.6     | 43.6     | 44.4     | 45.8     | 46.1     | 46.4     | 46.5     | 46.6     | 46.7    | 47.0    | 47.1    | 47.5    |
| GE 4000               | 29.7                             | 38.1     | 39.6     | 42.4     | 44.0     | 45.0     | 45.9     | 47.4     | 47.7     | 48.0     | 48.1     | 48.3     | 48.3    | 48.7    | 48.8    | 49.2    |
| GE 3500               | 30.4                             | 39.2     | 40.6     | 43.6     | 45.2     | 46.3     | 47.2     | 48.7     | 49.1     | 49.4     | 49.5     | 49.7     | 49.8    | 50.1    | 50.2    | 50.7    |
| GE 3000               | 32.5                             | 41.8     | 43.5     | 46.8     | 48.4     | 49.5     | 50.4     | 52.0     | 52.5     | 52.9     | 53.0     | 53.1     | 53.2    | 53.6    | 53.6    | 54.1    |
| GE 2500               | 34.8                             | 44.9     | 46.7     | 50.3     | 52.0     | 53.2     | 54.1     | 55.8     | 56.3     | 56.7     | 56.8     | 57.0     | 57.1    | 57.5    | 57.6    | 58.1    |
| GE 2000               | 37.9                             | 49.1     | 51.2     | 55.2     | 57.2     | 58.4     | 59.5     | 61.3     | 61.8     | 62.3     | 62.4     | 62.6     | 62.7    | 63.2    | 63.2    | 63.7    |
| GE 1800               | 39.2                             | 50.7     | 53.0     | 57.1     | 59.2     | 60.5     | 61.6     | 63.4     | 64.0     | 64.5     | 64.6     | 64.8     | 64.9    | 65.4    | 65.5    | 66.0    |
| GE 1500               | 40.8                             | 53.1     | 55.6     | 60.1     | 62.5     | 63.9     | 65.0     | 66.9     | 67.6     | 68.2     | 68.3     | 69.5     | 68.7    | 69.1    | 69.2    | 69.7    |
| GE 1200               | 42.8                             | 57.0     | 59.9     | 65.2     | 68.0     | 69.5     | 70.7     | 72.9     | 73.6     | 74.2     | 74.4     | 74.5     | 74.7    | 75.2    | 75.3    | 75.8    |
| GE 1000               | 43.6                             | 58.9     | 62.0     | 67.8     | 70.8     | 72.4     | 73.7     | 76.1     | 76.9     | 77.5     | 77.7     | 77.9     | 78.1    | 78.5    | 78.6    | 79.1    |
| GE 900                | 43.9                             | 59.7     | 63.0     | 69.1     | 72.3     | 73.9     | 75.3     | 77.8     | 78.6     | 79.3     | 79.5     | 79.6     | 79.8    | 80.3    | 80.4    | 80.9    |
| GE 800                | 44.2                             | 60.5     | 64.0     | 70.2     | 73.5     | 75.3     | 76.7     | 79.3     | 80.2     | 80.9     | 81.1     | 81.3     | 81.5    | 81.9    | 82.0    | 82.5    |
| GE 700                | 44.4                             | 61.4     | 65.0     | 71.7     | 75.0     | 77.0     | 78.5     | 81.3     | 82.2     | 83.0     | 83.2     | 83.4     | 83.6    | 84.1    | 84.2    | 84.7    |
| GE 600                | 44.6                             | 62.2     | 66.0     | 72.9     | 76.3     | 78.4     | 80.0     | 83.1     | 84.1     | 85.0     | 85.2     | 85.5     | 85.6    | 86.1    | 86.1    | 86.7    |
| GE 500                | 44.7                             | 62.6     | 66.6     | 73.7     | 77.4     | 79.6     | 81.4     | 84.6     | 85.7     | 86.6     | 86.8     | 87.0     | 87.2    | 87.7    | 87.8    | 88.3    |
| GE 400                | 44.9                             | 63.0     | 67.2     | 74.6     | 78.5     | 80.9     | 82.8     | 86.3     | 87.5     | 88.5     | 88.8     | 89.0     | 89.2    | 89.8    | 89.9    | 90.4    |
| GE 300                | 44.9                             | 63.3     | 67.6     | 75.3     | 79.5     | 82.1     | 84.2     | 88.0     | 89.4     | 90.6     | 90.9     | 91.1     | 91.3    | 92.0    | 92.1    | 92.6    |
| GE 200                | 44.9                             | 63.4     | 67.6     | 75.5     | 80.0     | 82.9     | 85.2     | 89.5     | 91.1     | 92.5     | 92.9     | 93.2     | 93.5    | 94.2    | 94.3    | 94.9    |
| GE 100                | 45.0                             | 63.4     | 67.7     | 75.6     | 80.1     | 83.1     | 85.5     | 90.2     | 92.1     | 93.9     | 94.5     | 94.8     | 95.2    | 95.9    | 96.1    | 97.0    |
| GE 0                  | 45.0                             | 63.4     | 67.7     | 75.6     | 80.1     | 83.1     | 85.5     | 90.3     | 92.2     | 94.1     | 94.8     | 95.1     | 95.7    | 96.8    | 97.2    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 7095

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 0000-0200

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 8.6                              | 15.4     | 17.4     | 19.7     | 22.2     | 23.8     | 24.8     | 27.3     | 28.3     | 28.7     | 29.1     | 29.4     | 30.0    | 30.3    | 30.4    | 31.2    |
| GE 20000              | 11.2                             | 19.1     | 21.6     | 24.1     | 26.8     | 28.5     | 29.5     | 32.8     | 34.0     | 34.3     | 34.7     | 35.1     | 35.7    | 35.9    | 36.0    | 37.0    |
| GE 18000              | 11.2                             | 19.1     | 21.6     | 24.1     | 26.8     | 28.5     | 29.5     | 32.8     | 34.0     | 34.3     | 34.7     | 35.1     | 35.7    | 35.9    | 36.0    | 37.0    |
| GE 16000              | 11.2                             | 19.1     | 21.7     | 24.2     | 26.9     | 28.6     | 29.7     | 32.9     | 34.1     | 34.5     | 34.8     | 35.2     | 35.8    | 36.0    | 36.1    | 37.1    |
| GE 14000              | 11.2                             | 19.1     | 21.7     | 24.2     | 26.9     | 28.6     | 29.7     | 32.9     | 34.1     | 34.5     | 34.8     | 35.2     | 35.8    | 36.0    | 36.1    | 37.1    |
| GE 12000              | 11.2                             | 19.2     | 22.0     | 24.5     | 27.3     | 28.9     | 30.0     | 33.3     | 34.5     | 34.8     | 35.2     | 35.5     | 36.1    | 36.4    | 36.5    | 37.5    |
| GE 10000              | 11.5                             | 19.8     | 22.6     | 25.3     | 28.5     | 30.1     | 31.2     | 34.5     | 35.7     | 36.1     | 36.5     | 36.9     | 37.5    | 37.7    | 37.8    | 38.8    |
| GE 9000               | 12.0                             | 20.8     | 23.5     | 26.5     | 29.7     | 31.3     | 32.4     | 35.7     | 36.9     | 37.5     | 37.8     | 38.2     | 38.8    | 39.0    | 39.1    | 40.1    |
| GE 8000               | 12.1                             | 21.1     | 23.9     | 26.9     | 30.0     | 31.7     | 32.8     | 36.0     | 37.2     | 37.8     | 38.2     | 38.5     | 39.1    | 39.4    | 39.5    | 40.5    |
| GE 7000               | 12.1                             | 21.2     | 21.2     | 24.0     | 27.0     | 30.1     | 31.8     | 32.9     | 36.1     | 37.3     | 37.9     | 38.3     | 38.7    | 39.3    | 39.5    | 40.6    |
| GE 6000               | 12.2                             | 21.5     | 24.5     | 27.6     | 30.7     | 32.5     | 33.6     | 36.9     | 38.1     | 38.7     | 39.1     | 39.5     | 40.1    | 40.3    | 40.5    | 41.4    |
| GE 5000               | 12.8                             | 22.2     | 25.2     | 28.5     | 31.7     | 33.6     | 34.7     | 38.1     | 39.3     | 39.9     | 40.3     | 40.7     | 41.3    | 41.5    | 41.7    | 42.6    |
| GE 4500               | 13.2                             | 23.2     | 26.2     | 29.4     | 32.7     | 34.6     | 35.8     | 39.1     | 40.3     | 40.9     | 41.4     | 41.8     | 42.4    | 42.6    | 42.7    | 43.7    |
| GE 4000               | 13.2                             | 23.4     | 26.7     | 30.0     | 33.5     | 35.4     | 36.9     | 40.2     | 41.5     | 42.1     | 42.6     | 43.0     | 43.6    | 43.8    | 43.9    | 44.9    |
| GE 3500               | 13.7                             | 24.4     | 27.9     | 31.6     | 35.1     | 37.0     | 38.4     | 41.8     | 43.2     | 43.8     | 44.3     | 44.7     | 45.3    | 45.5    | 45.6    | 46.6    |
| GE 3000               | 14.3                             | 25.9     | 29.5     | 34.1     | 37.0     | 39.9     | 41.3     | 45.3     | 46.8     | 47.4     | 47.9     | 48.3     | 48.9    | 49.1    | 49.2    | 50.2    |
| GE 2500               | 15.7                             | 28.9     | 32.5     | 37.5     | 41.8     | 43.8     | 45.4     | 49.3     | 50.9     | 51.5     | 52.0     | 52.3     | 52.9    | 53.2    | 53.3    | 54.3    |
| GE 2000               | 17.8                             | 32.1     | 35.7     | 41.1     | 45.5     | 47.7     | 49.2     | 53.2     | 54.7     | 55.5     | 55.9     | 56.3     | 56.9    | 57.1    | 57.3    | 58.2    |
| GE 1800               | 18.4                             | 33.0     | 36.6     | 42.0     | 46.5     | 48.6     | 50.2     | 54.4     | 55.9     | 56.8     | 57.3     | 57.6     | 58.2    | 58.5    | 58.6    | 59.5    |
| GE 1500               | 20.3                             | 35.8     | 39.5     | 45.0     | 49.9     | 52.2     | 53.9     | 58.3     | 60.1     | 61.1     | 61.6     | 61.9     | 62.5    | 62.8    | 62.9    | 63.9    |
| GE 1200               | 21.4                             | 38.4     | 42.3     | 48.6     | 54.1     | 57.0     | 59.2     | 63.9     | 65.8     | 66.9     | 67.5     | 67.8     | 68.4    | 68.7    | 68.8    | 69.7    |
| GE 1000               | 22.0                             | 40.0     | 43.8     | 50.9     | 56.8     | 59.8     | 62.1     | 67.0     | 68.9     | 70.0     | 70.6     | 70.9     | 71.5    | 71.8    | 71.9    | 72.9    |
| GE 900                | 22.3                             | 40.9     | 44.8     | 52.0     | 57.2     | 61.0     | 63.3     | 68.2     | 70.2     | 71.3     | 71.9     | 72.3     | 72.9    | 73.1    | 73.2    | 74.2    |
| GE 800                | 22.7                             | 42.1     | 46.2     | 53.5     | 59.9     | 63.3     | 65.7     | 70.9     | 73.1     | 74.2     | 74.8     | 75.2     | 75.8    | 76.0    | 76.1    | 77.1    |
| GE 700                | 22.9                             | 42.7     | 46.8     | 54.7     | 61.0     | 65.1     | 67.5     | 72.7     | 74.9     | 76.0     | 76.6     | 77.0     | 77.6    | 77.9    | 78.0    | 79.0    |
| GE 600                | 23.3                             | 43.7     | 48.1     | 56.3     | 63.0     | 67.6     | 70.2     | 75.6     | 77.8     | 78.9     | 79.5     | 79.8     | 80.4    | 80.8    | 81.9    | 81.9    |
| GE 500                | 23.8                             | 44.7     | 49.1     | 57.6     | 65.2     | 69.7     | 72.5     | 78.2     | 80.4     | 81.5     | 82.1     | 82.5     | 83.1    | 83.4    | 83.6    | 84.5    |
| GE 400                | 25.9                             | 45.3     | 49.9     | 58.8     | 67.1     | 71.9     | 74.9     | 80.7     | 83.1     | 84.3     | 85.0     | 85.4     | 86.0    | 86.3    | 86.4    | 87.4    |
| GE 300                | 24.0                             | 45.6     | 50.3     | 59.5     | 67.9     | 72.7     | 76.1     | 82.7     | 85.2     | 86.7     | 87.4     | 87.8     | 88.4    | 88.7    | 88.8    | 89.8    |
| GE 200                | 24.0                             | 45.7     | 50.7     | 60.0     | 68.8     | 73.6     | 77.1     | 83.9     | 86.8     | 88.8     | 89.6     | 89.9     | 90.5    | 91.1    | 91.2    | 92.2    |
| GE 100                | 24.0                             | 45.7     | 50.7     | 60.0     | 68.8     | 73.6     | 77.3     | 84.6     | 87.8     | 90.3     | 91.4     | 91.7     | 92.6    | 93.4    | 93.6    | 95.3    |
| GE 01                 | 24.0                             | 45.7     | 50.7     | 60.0     | 68.8     | 73.6     | 77.3     | 84.6     | 87.8     | 90.4     | 91.8     | 92.3     | 93.4    | 94.5    | 94.8    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 853

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87

MONTH: FEB

HOURS(LST): 0300-0500

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>90 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |  |
| NO CEIL               | 9.3                              | 16.2     | 17.8     | 19.3     | 21.8     | 24.3     | 25.4     | 27.2     | 28.5     | 28.7     | 28.7     | 29.0     | 29.1    | 29.2    | 29.2    | 29.2    | 30.5 |  |
| GE 2000               | 11.5                             | 19.4     | 21.2     | 23.0     | 26.0     | 29.0     | 30.1     | 32.2     | 33.5     | 33.8     | 33.8     | 34.0     | 34.1    | 34.4    | 34.4    | 35.8    |      |  |
| GE 1800               | 11.5                             | 19.4     | 21.2     | 23.0     | 26.0     | 29.0     | 30.1     | 32.2     | 33.5     | 33.8     | 33.8     | 34.0     | 34.1    | 34.4    | 34.4    | 35.8    |      |  |
| GE 1600               | 11.5                             | 19.4     | 21.2     | 23.0     | 26.0     | 29.0     | 30.1     | 32.2     | 33.5     | 33.8     | 33.8     | 34.0     | 34.1    | 34.4    | 34.4    | 35.8    |      |  |
| GE 1400               | 11.5                             | 19.4     | 21.2     | 23.0     | 26.1     | 29.1     | 30.2     | 32.3     | 33.7     | 33.9     | 33.9     | 34.1     | 34.3    | 34.5    | 34.5    | 35.9    |      |  |
| GE 1200               | 11.6                             | 19.5     | 21.4     | 23.2     | 26.6     | 29.6     | 30.7     | 32.9     | 34.3     | 34.5     | 34.5     | 34.7     | 34.9    | 35.1    | 35.1    | 36.5    |      |  |
| GE 1000               | 11.9                             | 19.9     | 21.9     | 23.7     | 27.2     | 30.3     | 31.4     | 34.0     | 35.3     | 35.6     | 35.6     | 35.8     | 35.9    | 36.2    | 36.2    | 37.6    |      |  |
| GE 900                | 12.0                             | 20.0     | 22.2     | 24.0     | 27.4     | 30.5     | 31.6     | 34.3     | 35.6     | 35.9     | 35.9     | 36.2     | 36.3    | 36.5    | 36.5    | 38.0    |      |  |
| GE 800                | 12.2                             | 20.4     | 22.5     | 24.3     | 27.8     | 30.9     | 32.0     | 34.7     | 36.0     | 36.4     | 36.4     | 36.6     | 36.8    | 37.0    | 37.0    | 38.4    |      |  |
| GE 700                | 12.3                             | 20.5     | 22.6     | 24.4     | 27.9     | 31.0     | 32.1     | 34.9     | 36.2     | 36.5     | 36.5     | 36.8     | 36.9    | 37.1    | 37.1    | 38.6    |      |  |
| GE 600                | 12.6                             | 20.6     | 22.9     | 25.0     | 28.5     | 31.6     | 32.7     | 35.4     | 36.8     | 37.1     | 37.4     | 37.5     | 37.7    | 37.7    | 37.7    | 39.2    |      |  |
| GE 500                | 12.6                             | 20.8     | 22.2     | 25.5     | 29.0     | 32.1     | 33.3     | 36.0     | 37.4     | 37.7     | 37.7     | 38.1     | 38.2    | 38.6    | 38.6    | 40.0    |      |  |
| GE 4500               | 13.1                             | 21.4     | 23.8     | 26.1     | 29.6     | 32.7     | 33.9     | 36.6     | 38.0     | 38.3     | 38.3     | 38.7     | 38.8    | 39.2    | 39.2    | 40.6    |      |  |
| GE 4000               | 13.5                             | 21.9     | 24.3     | 26.8     | 30.4     | 33.5     | 34.7     | 37.6     | 38.9     | 39.3     | 39.3     | 39.6     | 39.8    | 40.1    | 40.1    | 41.6    |      |  |
| GE 3500               | 14.0                             | 22.8     | 25.1     | 27.7     | 31.4     | 34.5     | 35.7     | 38.6     | 39.9     | 40.2     | 40.2     | 40.6     | 40.7    | 41.1    | 41.1    | 42.6    |      |  |
| GE 3000               | 15.6                             | 24.8     | 27.2     | 30.2     | 33.9     | 37.4     | 38.8     | 41.7     | 43.5     | 43.8     | 43.8     | 44.2     | 44.3    | 44.7    | 44.7    | 46.2    |      |  |
| GE 2500               | 17.1                             | 28.3     | 30.7     | 34.4     | 38.3     | 42.0     | 43.5     | 46.5     | 48.4     | 48.7     | 48.7     | 49.1     | 49.2    | 49.6    | 49.6    | 51.1    |      |  |
| GE 2000               | 19.5                             | 31.1     | 33.5     | 37.6     | 41.8     | 45.6     | 47.3     | 50.5     | 52.5     | 52.8     | 53.2     | 53.3     | 53.7    | 53.7    | 55.2    |         |      |  |
| GE 1800               | 20.4                             | 32.3     | 34.7     | 39.0     | 43.2     | 47.1     | 48.7     | 52.0     | 54.1     | 54.7     | 55.1     | 55.2     | 55.6    | 55.6    | 57.1    |         |      |  |
| GE 1500               | 21.4                             | 34.1     | 36.8     | 41.4     | 45.9     | 49.8     | 52.1     | 55.6     | 57.7     | 58.3     | 58.3     | 58.7     | 58.8    | 59.2    | 59.2    | 60.7    |      |  |
| GE 1200               | 22.2                             | 36.3     | 39.0     | 44.2     | 48.9     | 52.9     | 55.6     | 59.5     | 61.8     | 62.4     | 62.8     | 62.9     | 63.2    | 63.2    | 64.8    |         |      |  |
| GE 1000               | 23.2                             | 38.2     | 41.2     | 47.2     | 52.5     | 57.0     | 59.9     | 64.2     | 66.6     | 67.2     | 67.2     | 67.5     | 67.7    | 68.0    | 68.0    | 69.6    |      |  |
| GE 900                | 23.5                             | 39.0     | 42.3     | 48.5     | 53.9     | 58.4     | 61.3     | 65.6     | 68.0     | 68.6     | 69.0     | 69.1     | 69.5    | 69.5    | 71.0    |         |      |  |
| GE 800                | 23.8                             | 39.9     | 43.4     | 49.8     | 55.6     | 60.5     | 63.4     | 67.7     | 70.1     | 70.7     | 70.7     | 71.0     | 71.1    | 71.5    | 71.5    | 73.1    |      |  |
| GE 700                | 24.1                             | 40.8     | 45.0     | 51.7     | 57.8     | 62.9     | 65.7     | 70.1     | 72.5     | 73.1     | 73.1     | 73.4     | 73.5    | 73.9    | 73.9    | 75.4    |      |  |
| GE 600                | 24.2                             | 41.4     | 45.7     | 52.9     | 59.5     | 64.6     | 68.0     | 72.6     | 75.1     | 75.7     | 75.7     | 76.0     | 76.2    | 76.5    | 76.5    | 78.1    |      |  |
| GE 500                | 24.2                             | 41.7     | 46.1     | 53.4     | 60.7     | 66.3     | 69.7     | 74.5     | 77.0     | 77.8     | 77.8     | 78.3     | 78.4    | 78.8    | 78.8    | 80.4    |      |  |
| GE 400                | 24.3                             | 42.0     | 46.6     | 54.5     | 62.4     | 68.4     | 72.0     | 77.5     | 80.1     | 81.1     | 81.6     | 81.7     | 82.0    | 82.0    | 83.6    |         |      |  |
| GE 300                | 24.3                             | 42.6     | 47.3     | 55.3     | 63.2     | 69.7     | 73.4     | 79.8     | 82.6     | 84.0     | 84.0     | 84.7     | 84.9    | 85.3    | 85.3    | 86.8    |      |  |
| GE 200                | 24.3                             | 42.6     | 47.3     | 55.4     | 63.5     | 70.1     | 73.9     | 81.0     | 84.3     | 85.6     | 86.1     | 86.9     | 87.3    | 87.7    | 87.7    | 89.2    |      |  |
| GE 100                | 24.3                             | 42.6     | 47.4     | 55.6     | 63.6     | 70.3     | 74.3     | 81.4     | 85.0     | 86.9     | 88.1     | 88.6     | 90.2    | 90.3    | 93.3    |         |      |  |
| GE 0                  | 24.3                             | 42.6     | 47.4     | 55.6     | 63.6     | 70.3     | 74.3     | 81.6     | 85.4     | 87.4     | 88.9     | 89.9     | 90.7    | 92.1    | 92.5    | 100.0   |      |  |

TOTAL NUMBER OF OBSERVATIONS: 835

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOCCOMBE DOWN UK

PERIOD OF RECORD: 78-87

MONTH: FEB HOURS(LST): 0600-0800

| CEILING<br>IN<br>FEET | GT   | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |       |       |       |
|-----------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|-------|-------|-------|
|                       |      |          |          |          |          |          |          |          |          |          |          |         |         |         |         | 13.2                             | 13.9 | 16.3 | 17.9 | 19.0 | 19.8 | 21.2 | 21.7 | 22.0 | 22.5 | 22.6 | 22.7 | 23.3 | 23.3 | 24.2 | 24.9 | 25.6 | 26.3 | 26.8 | 27.3 | 27.8 | 28.3 | 28.8 | 29.3 | 29.8 | 30.3 | 30.8 | 31.3 | 31.8 | 32.3 |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |       |       |       |
| NO CEIL               | P.1  | 13.2     | 13.9     | 16.3     | 17.9     | 19.0     | 19.8     | 21.2     | 21.7     | 22.0     | 22.5     | 22.6    | 22.7    | 23.3    | 23.3    | 24.2                             | 24.9 | 25.6 | 26.3 | 26.8 | 27.3 | 27.8 | 28.3 | 28.8 | 29.3 | 29.8 | 30.3 | 30.8 | 31.3 | 31.8 | 32.3 | 32.9 | 33.5 | 34.1 | 34.7 | 35.3 | 35.9 | 36.5 | 37.1 | 37.7 | 38.3 | 38.9 | 39.5 | 40.1 | 40.7 | 41.3 | 41.9 | 42.5 |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |       |       |       |
| GE 20000              | 9.5  | 16.0     | 16.9     | 20.0     | 21.7     | 23.1     | 24.2     | 26.0     | 26.5     | 27.0     | 27.5     | 27.6    | 27.9    | 28.7    | 28.7    | 29.6                             | 29.9 | 30.4 | 30.9 | 31.4 | 31.9 | 32.4 | 33.2 | 33.8 | 34.4 | 35.0 | 35.6 | 36.2 | 36.8 | 37.4 | 38.0 | 38.6 | 39.2 | 39.8 | 40.4 | 41.0 | 41.6 | 42.2 | 42.8 | 43.4 | 44.0 | 44.6 | 45.2 | 45.8 | 46.4 | 47.0 | 47.6 | 48.2 | 48.8 | 49.4 | 50.0 | 50.6 | 51.2 | 51.8 | 52.4 | 53.0 | 53.6 | 54.2 | 54.8     | 55.4 | 56.0 | 56.6 | 57.2 | 57.8 | 58.4 | 59.0 | 59.6 | 60.2 | 60.8 | 61.4 | 62.0 | 62.6 | 63.2 | 63.8 | 64.4 | 65.0 | 65.6 | 66.2 | 66.8 | 67.4 | 68.0 | 68.6 | 69.2 | 69.8 | 70.4 | 71.0 | 71.6 | 72.2 | 72.8 | 73.4 | 74.0 | 74.6 | 75.2 | 75.8 | 76.4 | 77.0 | 77.6 | 78.2 | 78.8 | 79.4 | 79.8 | 80.4 | 81.0 | 81.6 | 82.2 | 82.8 | 83.4 | 84.0 | 84.6 | 85.2 | 85.8 | 86.4 | 87.0 | 87.6 | 88.2 | 88.8 | 89.4 | 89.8 | 90.4 | 91.0 | 91.6 | 92.2 | 92.8 | 93.4 | 94.0 | 94.6 | 95.2 | 95.8 | 96.4  | 97.0 | 97.6 | 98.2 | 98.8 | 99.4  | 99.8  | 100.0 |
| GE 18000              | 9.5  | 16.0     | 16.9     | 20.0     | 21.7     | 23.1     | 24.3     | 26.1     | 26.6     | 27.3     | 27.7     | 27.9    | 28.1    | 28.9    | 29.1    | 29.9                             | 30.5 | 31.1 | 31.7 | 32.3 | 32.9 | 33.5 | 34.1 | 34.8 | 35.4 | 36.0 | 36.6 | 37.2 | 37.8 | 38.4 | 39.0 | 39.6 | 40.2 | 40.8 | 41.4 | 42.0 | 42.6 | 43.2 | 43.8 | 44.4 | 45.0 | 45.6 | 46.2 | 46.8 | 47.4 | 48.0 | 48.6 | 49.2 | 49.8 | 50.4 | 51.0 | 51.6 | 52.2 | 52.8 | 53.4 | 54.0 | 54.6 | 55.2 | 55.8     | 56.4 | 57.0 | 57.6 | 58.2 | 58.8 | 59.4 | 59.8 | 60.4 | 61.0 | 61.6 | 62.2 | 62.8 | 63.4 | 64.0 | 64.6 | 65.2 | 65.8 | 66.4 | 67.0 | 67.6 | 68.2 | 68.8 | 69.4 | 69.8 | 70.4 | 71.0 | 71.6 | 72.2 | 72.8 | 73.4 | 74.0 | 74.6 | 75.2 | 75.8 | 76.4 | 77.0 | 77.6 | 78.2 | 78.8 | 79.4 | 79.8 | 80.4 | 81.0 | 81.6 | 82.2 | 82.8 | 83.4 | 84.0 | 84.6 | 85.2 | 85.8 | 86.4 | 87.0 | 87.6 | 88.2 | 88.8 | 89.4 | 89.8 | 90.4 | 91.0 | 91.6 | 92.2 | 92.8 | 93.4 | 94.0 | 94.6 | 95.2 | 95.8 | 96.4 | 97.0  | 97.6 | 98.2 | 98.8 | 99.4 | 99.8  | 100.0 |       |
| GE 16000              | 9.5  | 16.0     | 16.9     | 20.0     | 21.7     | 23.1     | 24.3     | 26.1     | 26.6     | 27.3     | 27.7     | 27.9    | 28.1    | 28.9    | 29.1    | 29.9                             | 30.5 | 31.1 | 31.7 | 32.3 | 32.9 | 33.5 | 34.1 | 34.8 | 35.4 | 36.0 | 36.6 | 37.2 | 37.8 | 38.4 | 39.0 | 39.6 | 40.2 | 40.8 | 41.4 | 42.0 | 42.6 | 43.2 | 43.8 | 44.4 | 45.0 | 45.6 | 46.2 | 46.8 | 47.4 | 48.0 | 48.6 | 49.2 | 49.8 | 50.4 | 51.0 | 51.6 | 52.2 | 52.8 | 53.4 | 54.0 | 54.6 | 55.2 | 55.8     | 56.4 | 57.0 | 57.6 | 58.2 | 58.8 | 59.4 | 59.8 | 60.4 | 61.0 | 61.6 | 62.2 | 62.8 | 63.4 | 64.0 | 64.6 | 65.2 | 65.8 | 66.4 | 67.0 | 67.6 | 68.2 | 68.8 | 69.4 | 69.8 | 70.4 | 71.0 | 71.6 | 72.2 | 72.8 | 73.4 | 74.0 | 74.6 | 75.2 | 75.8 | 76.4 | 77.0 | 77.6 | 78.2 | 78.8 | 79.4 | 79.8 | 80.4 | 81.0 | 81.6 | 82.2 | 82.8 | 83.4 | 84.0 | 84.6 | 85.2 | 85.8 | 86.4 | 87.0 | 87.6 | 88.2 | 88.8 | 89.4 | 89.8 | 90.4 | 91.0 | 91.6 | 92.2 | 92.8 | 93.4 | 94.0 | 94.6 | 95.2 | 95.8 | 96.4 | 97.0  | 97.6 | 98.2 | 98.8 | 99.4 | 99.8  | 100.0 |       |
| GE 14000              | 9.5  | 16.1     | 17.0     | 20.1     | 21.9     | 23.3     | 24.5     | 26.3     | 27.0     | 27.5     | 28.0     | 28.1    | 28.9    | 29.1    | 29.9    | 30.5                             | 31.1 | 31.7 | 32.3 | 32.9 | 33.5 | 34.1 | 34.8 | 35.4 | 36.0 | 36.6 | 37.2 | 37.8 | 38.4 | 39.0 | 39.6 | 40.2 | 40.8 | 41.4 | 42.0 | 42.6 | 43.2 | 43.8 | 44.4 | 45.0 | 45.6 | 46.2 | 46.8 | 47.4 | 48.0 | 48.6 | 49.2 | 49.8 | 50.4 | 51.0 | 51.6 | 52.2 | 52.8 | 53.4 | 54.0 | 54.6 | 55.2 | 55.8 | 56.4     | 57.0 | 57.6 | 58.2 | 58.8 | 59.4 | 59.8 | 60.4 | 61.0 | 61.6 | 62.2 | 62.8 | 63.4 | 64.0 | 64.6 | 65.2 | 65.8 | 66.4 | 67.0 | 67.6 | 68.2 | 68.8 | 69.4 | 69.8 | 70.4 | 71.0 | 71.6 | 72.2 | 72.8 | 73.4 | 74.0 | 74.6 | 75.2 | 75.8 | 76.4 | 77.0 | 77.6 | 78.2 | 78.8 | 79.4 | 79.8 | 80.4 | 81.0 | 81.6 | 82.2 | 82.8 | 83.4 | 84.0 | 84.6 | 85.2 | 85.8 | 86.4 | 87.0 | 87.6 | 88.2 | 88.8 | 89.4 | 89.8 | 90.4 | 91.0 | 91.6 | 92.2 | 92.8 | 93.4 | 94.0 | 94.6 | 95.2 | 95.8 | 96.4 | 97.0 | 97.6  | 98.2 | 98.8 | 99.4 | 99.8 | 100.0 |       |       |
| GE 12000              | 9.5  | 16.2     | 17.1     | 20.6     | 22.5     | 23.9     | 25.1     | 26.9     | 27.6     | 28.2     | 28.7     | 28.8    | 29.0    | 29.1    | 29.9    | 30.5                             | 31.1 | 31.7 | 32.3 | 32.9 | 33.5 | 34.1 | 34.8 | 35.4 | 36.0 | 36.6 | 37.2 | 37.8 | 38.4 | 39.0 | 39.6 | 40.2 | 40.8 | 41.4 | 42.0 | 42.6 | 43.2 | 43.8 | 44.4 | 45.0 | 45.6 | 46.2 | 46.8 | 47.4 | 48.0 | 48.6 | 49.2 | 49.8 | 50.4 | 51.0 | 51.6 | 52.2 | 52.8 | 53.4 | 54.0 | 54.6 | 55.2 | 55.8 | 56.4     | 57.0 | 57.6 | 58.2 | 58.8 | 59.4 | 59.8 | 60.4 | 61.0 | 61.6 | 62.2 | 62.8 | 63.4 | 64.0 | 64.6 | 65.2 | 65.8 | 66.4 | 67.0 | 67.6 | 68.2 | 68.8 | 69.4 | 69.8 | 70.4 | 71.0 | 71.6 | 72.2 | 72.8 | 73.4 | 74.0 | 74.6 | 75.2 | 75.8 | 76.4 | 77.0 | 77.6 | 78.2 | 78.8 | 79.4 | 79.8 | 80.4 | 81.0 | 81.6 | 82.2 | 82.8 | 83.4 | 84.0 | 84.6 | 85.2 | 85.8 | 86.4 | 87.0 | 87.6 | 88.2 | 88.8 | 89.4 | 89.8 | 90.4 | 91.0 | 91.6 | 92.2 | 92.8 | 93.4 | 94.0 | 94.6 | 95.2 | 95.8 | 96.4 | 97.0 | 97.6  | 98.2 | 98.8 | 99.4 | 99.8 | 100.0 |       |       |
| GE 10000              | 9.9  | 16.9     | 18.0     | 21.4     | 23.3     | 24.8     | 26.3     | 28.2     | 29.8     | 29.5     | 30.1     | 30.8    | 31.5    | 32.2    | 33.5    | 33.7                             | 34.4 | 35.0 | 35.6 | 36.2 | 36.8 | 37.4 | 38.0 | 38.6 | 39.2 | 39.8 | 40.4 | 41.0 | 41.6 | 42.2 | 42.8 | 43.4 | 44.0 | 44.6 | 45.2 | 45.8 | 46.4 | 47.0 | 47.6 | 48.2 | 48.8 | 49.4 | 49.8 | 50.4 | 51.0 | 51.6 | 52.2 | 52.8 | 53.4 | 54.0 | 54.6 | 55.2 | 55.8 | 56.4 | 57.0 | 57.6 | 58.2 | 58.8 | 59.4     | 59.8 | 60.4 | 61.0 | 61.6 | 62.2 | 62.8 | 63.4 | 64.0 | 64.6 | 65.2 | 65.8 | 66.4 | 67.0 | 67.6 | 68.2 | 68.8 | 69.4 | 69.8 | 70.4 | 71.0 | 71.6 | 72.2 | 72.8 | 73.4 | 74.0 | 74.6 | 75.2 | 75.8 | 76.4 | 77.0 | 77.6 | 78.2 | 78.8 | 79.4 | 79.8 | 80.4 | 81.0 | 81.6 | 82.2 | 82.8 | 83.4 | 84.0 | 84.6 | 85.2 | 85.8 | 86.4 | 87.0 | 87.6 | 88.2 | 88.8 | 89.4 | 89.8 | 90.4 | 91.0 | 91.6 | 92.2 | 92.8 | 93.4 | 94.0 | 94.6 | 95.2 | 95.8 | 96.4 | 97.0 | 97.6 | 98.2 | 98.8 | 99.4 | 99.8 | 100.0 |      |      |      |      |       |       |       |
| GE 8000               | 10.0 | 17.0     | 18.2     | 21.7     | 23.6     | 25.0     | 26.5     | 28.6     | 29.3     | 29.9     | 30.1     | 30.7    | 31.4    | 32.1    | 33.3    | 33.9                             | 34.6 | 35.2 | 35.8 | 36.4 | 37.0 | 37.6 | 38.2 | 38.8 | 39.4 | 39.8 | 40.4 | 41.0 | 41.6 | 42.2 | 42.8 | 43.4 | 44.0 | 44.6 | 45.2 | 45.8 | 46.4 | 47.0 | 47.6 | 48.2 | 48.8 | 49.4 | 49.8 | 50.4 | 51.0 | 51.6 | 52.2 | 52.8 | 53.4 | 54.0 | 54.6 | 55.2 | 55.8 | 56.4 | 57.0 | 57.6 | 58.2 | 58.8 | 59.4     | 59.8 | 60.4 | 61.0 | 61.6 | 62.2 | 62.8 | 63.4 | 64.0 | 64.6 | 65.2 | 65.8 | 66.4 | 67.0 | 67.6 | 68.2 | 68.8 | 69.4 | 69.8 | 70.4 | 71.0 | 71.6 | 72.2 | 72.8 | 73.4 | 74.0 | 74.6 | 75.2 | 75.8 | 76.4 | 77.0 | 77.6 | 78.2 | 78.8 | 79.4 | 79.8 | 80.4 | 81.0 | 81.6 | 82.2 | 82.8 | 83.4 | 84.0 | 84.6 | 85.2 | 85.8 | 86.4 | 87.0 | 87.6 | 88.2 | 88.8 | 89.4 | 89.8 | 90.4 | 91.0 | 91.6 | 92.2 | 92.8 | 93.4 | 94.0 | 94.6 | 95.2 | 95.8 | 96.4 | 97.0 | 97.6 | 98.2 | 98.8 | 99.4 | 99.8 | 100.0 |      |      |      |      |       |       |       |
| GE 6000               | 10.2 | 17.3     | 18.7     | 22.1     | 24.0     | 25.7     | 27.4     | 29.0     | 29.6     | 30.2     | 30.8     | 31.4    | 32.1    | 32.8    | 33.5    | 34.2                             | 34.9 | 35.6 | 36.2 | 36.8 | 37.4 | 38.0 | 38.6 | 39.2 | 39.8 | 40.4 | 41.0 | 41.6 | 42.2 | 42.8 | 43.4 | 44.0 | 44.6 | 45.2 | 45.8 | 46.4 | 47.0 | 47.6 | 48.2 | 48.8 | 49.4 | 49.8 | 50.4 | 51.0 | 51.6 | 52.2 | 52.8 | 53.4 | 54.0 | 54.6 | 55.2 | 55.8 | 56.4 | 57.0 | 57.6 | 58.2 | 58.8 | 59.4 | 59.8</td |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |      |      |       |       |       |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87

MONTH: FEB HOURS(LST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |  |  |
| NO CEIL               | 7.2                              | 11.4     | 13.1     | 15.3     | 16.7     | 16.9     | 18.2     | 19.4     | 19.9     | 20.4     | 20.5     | 20.6     | 20.6    | 20.9    | 21.0    | 21.2    |  |  |
| GE 20000              | 10.4                             | 16.3     | 18.7     | 21.5     | 23.3     | 23.9     | 25.9     | 27.2     | 27.7     | 28.2     | 28.3     | 28.4     | 28.4    | 28.7    | 28.8    | 29.0    |  |  |
| GE 18000              | 10.4                             | 16.3     | 18.7     | 21.5     | 23.4     | 24.0     | 26.0     | 27.3     | 27.9     | 28.5     | 28.7     | 28.8     | 28.8    | 29.0    | 29.1    | 29.4    |  |  |
| GE 16000              | 10.4                             | 16.3     | 18.7     | 21.5     | 23.4     | 24.0     | 26.0     | 27.3     | 27.9     | 28.5     | 28.7     | 28.8     | 28.8    | 29.0    | 29.1    | 29.4    |  |  |
| GE 14000              | 10.8                             | 17.3     | 19.7     | 22.4     | 24.5     | 25.1     | 27.1     | 28.4     | 29.0     | 29.6     | 29.7     | 29.9     | 29.9    | 30.1    | 30.2    | 30.5    |  |  |
| GE 12000              | 11.3                             | 18.3     | 20.9     | 24.0     | 26.1     | 26.7     | 29.1     | 30.5     | 31.1     | 31.7     | 31.8     | 31.9     | 31.9    | 32.1    | 32.3    | 32.5    |  |  |
| GE 10000              | 11.8                             | 18.9     | 21.6     | 24.8     | 27.2     | 27.9     | 30.3     | 31.8     | 32.4     | 33.0     | 37.1     | 33.2     | 33.2    | 33.6    | 33.7    | 33.9    |  |  |
| GE 9000               | 12.4                             | 19.5     | 22.2     | 25.8     | 28.3     | 29.1     | 31.5     | 33.1     | 33.7     | 34.4     | 34.5     | 34.7     | 34.7    | 35.0    | 35.1    | 35.4    |  |  |
| GE 8000               | 12.4                             | 19.5     | 22.4     | 26.0     | 28.5     | 29.4     | 31.8     | 33.3     | 33.9     | 34.8     | 34.9     | 35.0     | 35.0    | 35.4    | 35.5    | 35.7    |  |  |
| GE 7000               | 12.5                             | 19.8     | 22.7     | 26.3     | 28.8     | 29.6     | 32.0     | 33.6     | 34.2     | 35.0     | 35.1     | 35.3     | 35.3    | 35.6    | 35.7    | 36.0    |  |  |
| GE 6000               | 12.6                             | 20.0     | 22.9     | 26.7     | 29.3     | 30.1     | 32.5     | 34.1     | 34.7     | 35.5     | 35.6     | 35.7     | 35.7    | 36.1    | 36.2    | 36.5    |  |  |
| GE 5000               | 14.1                             | 21.8     | 24.7     | 28.8     | 31.3     | 32.1     | 34.5     | 36.5     | 37.1     | 37.9     | 38.0     | 38.1     | 38.1    | 38.5    | 38.6    | 38.8    |  |  |
| GE 4500               | 15.5                             | 23.9     | 26.7     | 30.9     | 33.8     | 34.9     | 37.3     | 39.4     | 40.0     | 40.9     | 41.0     | 41.1     | 41.1    | 41.5    | 41.6    | 41.8    |  |  |
| GE 4000               | 16.3                             | 24.9     | 27.8     | 32.4     | 35.4     | 36.7     | 39.2     | 41.4     | 42.0     | 42.8     | 42.9     | 43.0     | 43.0    | 43.6    | 43.8    | 44.0    |  |  |
| GE 3500               | 16.8                             | 25.8     | 28.8     | 33.7     | 36.7     | 38.0     | 40.6     | 42.8     | 43.5     | 44.4     | 44.5     | 44.6     | 44.6    | 45.2    | 45.3    | 45.6    |  |  |
| GE 3000               | 17.9                             | 27.6     | 30.6     | 35.9     | 39.0     | 40.5     | 43.3     | 45.6     | 46.3     | 47.1     | 47.2     | 47.4     | 47.4    | 48.0    | 48.1    | 48.3    |  |  |
| GE 2500               | 19.5                             | 29.9     | 33.0     | 38.4     | 41.7     | 43.3     | 46.0     | 48.6     | 49.4     | 50.5     | 50.6     | 50.8     | 50.8    | 51.4    | 51.6    | 51.8    |  |  |
| GE 2000               | 21.0                             | 32.4     | 35.7     | 41.7     | 45.1     | 46.8     | 49.5     | 52.0     | 52.9     | 54.0     | 54.2     | 54.6     | 54.6    | 55.2    | 55.3    | 55.5    |  |  |
| GE 1800               | 22.1                             | 34.3     | 38.1     | 44.4     | 47.8     | 49.5     | 52.9     | 55.0     | 55.9     | 57.1     | 57.3     | 57.7     | 57.7    | 58.3    | 58.4    | 58.6    |  |  |
| GE 1500               | 23.6                             | 36.3     | 40.2     | 47.0     | 50.6     | 52.3     | 55.3     | 58.0     | 59.0     | 60.2     | 60.4     | 60.9     | 60.9    | 61.5    | 61.6    | 61.9    |  |  |
| GE 1200               | 24.3                             | 37.6     | 41.6     | 49.0     | 53.7     | 55.8     | 59.4     | 62.2     | 63.2     | 64.4     | 64.7     | 65.2     | 65.2    | 65.9    | 66.1    | 66.3    |  |  |
| GE 1000               | 24.9                             | 39.1     | 43.2     | 51.1     | 56.5     | 58.6     | 62.2     | 65.2     | 66.2     | 67.7     | 68.1     | 68.6     | 68.6    | 69.3    | 69.4    | 69.7    |  |  |
| GE 900                | 25.2                             | 39.7     | 43.8     | 51.7     | 57.3     | 59.6     | 63.3     | 66.5     | 67.5     | 69.1     | 69.4     | 69.9     | 69.9    | 70.6    | 70.7    | 71.0    |  |  |
| GE 800                | 25.3                             | 40.2     | 44.6     | 52.9     | 58.9     | 61.2     | 65.1     | 68.5     | 69.4     | 71.0     | 71.3     | 71.8     | 71.8    | 72.5    | 72.7    | 72.9    |  |  |
| GE 700                | 25.7                             | 40.9     | 45.6     | 54.2     | 60.6     | 63.1     | 67.1     | 71.1     | 72.1     | 73.6     | 74.1     | 74.6     | 74.6    | 75.3    | 75.4    | 75.7    |  |  |
| GE 600                | 25.7                             | 41.7     | 46.6     | 55.4     | 62.2     | 65.1     | 69.2     | 73.6     | 74.6     | 76.1     | 76.7     | 77.2     | 77.2    | 77.9    | 78.1    | 78.3    |  |  |
| GF 500                | 25.9                             | 42.2     | 47.6     | 56.8     | 64.4     | 67.3     | 71.3     | 76.4     | 77.5     | 79.4     | 80.1     | 80.6     | 80.6    | 81.3    | 81.4    | 81.7    |  |  |
| GE 400                | 25.9                             | 42.4     | 48.6     | 57.7     | 66.2     | 69.3     | 73.7     | 79.9     | 80.9     | 82.9     | 83.6     | 84.1     | 84.2    | 84.9    | 85.0    | 85.5    |  |  |
| GF 300                | 25.9                             | 42.7     | 48.9     | 58.5     | 67.6     | 70.7     | 75.5     | 82.6     | 83.8     | 86.1     | 86.9     | 87.3     | 87.4    | 88.2    | 88.4    | 88.8    |  |  |
| GE 200                | 25.9                             | 42.8     | 49.0     | 58.6     | 68.0     | 71.1     | 76.5     | 83.7     | 85.5     | 88.4     | 89.4     | 90.4     | 91.0    | 92.1    | 92.3    | 93.0    |  |  |
| GE 100                | 25.9                             | 42.8     | 49.0     | 58.6     | 68.0     | 71.2     | 76.6     | 84.1     | 85.9     | 88.8     | 90.0     | 91.0     | 91.8    | 93.3    | 93.5    | 95.6    |  |  |
| GE 01                 | 25.9                             | 42.8     | 49.0     | 58.6     | 68.0     | 71.2     | 76.6     | 84.1     | 85.9     | 89.3     | 90.5     | 91.5     | 92.4    | 94.2    | 94.8    | 100.0   |  |  |

TOTAL NUMBER OF OBSERVATIONS: 834

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1200-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |  |
| NO CEIL               | 9.7                              | 16.3     | 17.0     | 18.3     | 19.0     | 20.2     | 21.4     | 21.6     | 21.9     | 21.9     | 21.9     | 21.9     | 21.9    | 21.9    | 21.9    | 21.9    | 21.9 |  |
| GE 20000              | 14.8                             | 23.6     | 25.0     | 26.8     | 29.1     | 29.8     | 31.1     | 31.4     | 31.8     | 31.8     | 31.8     | 31.8     | 31.8    | 31.8    | 31.8    | 31.8    | 31.8 |  |
| GE 18000              | 14.9                             | 23.7     | 25.1     | 27.0     | 29.4     | 30.1     | 31.4     | 31.8     | 32.1     | 32.1     | 32.1     | 32.1     | 32.1    | 32.1    | 32.1    | 32.1    | 32.1 |  |
| GE 16000              | 15.1                             | 23.8     | 25.3     | 27.2     | 29.5     | 30.2     | 31.6     | 31.9     | 32.3     | 32.3     | 32.3     | 32.3     | 32.3    | 32.3    | 32.3    | 32.3    | 32.3 |  |
| GE 14000              | 15.4                             | 24.6     | 26.0     | 28.1     | 30.5     | 31.2     | 32.5     | 32.9     | 33.2     | 33.2     | 33.2     | 33.2     | 33.2    | 33.2    | 33.2    | 33.2    | 33.2 |  |
| GE 12000              | 16.1                             | 25.9     | 27.3     | 29.7     | 32.1     | 32.9     | 34.2     | 34.5     | 34.9     | 34.9     | 34.9     | 34.9     | 34.9    | 34.9    | 34.9    | 34.9    | 35.0 |  |
| GE 10000              | 16.6                             | 27.2     | 28.7     | 31.6     | 34.2     | 35.0     | 36.3     | 36.8     | 37.1     | 37.1     | 37.1     | 37.1     | 37.1    | 37.1    | 37.1    | 37.1    | 37.2 |  |
| GE 9000               | 16.8                             | 27.6     | 29.2     | 32.1     | 34.8     | 35.6     | 36.9     | 37.4     | 37.7     | 37.7     | 37.7     | 37.7     | 37.7    | 37.7    | 37.7    | 37.7    | 38.0 |  |
| GE 8000               | 17.1                             | 28.0     | 29.5     | 32.6     | 35.3     | 36.2     | 37.5     | 38.0     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3    | 38.3    | 38.3    | 38.6    | 38.6 |  |
| GE 7000               | 17.2                             | 28.2     | 29.8     | 32.9     | 35.6     | 36.4     | 37.7     | 38.2     | 38.6     | 38.6     | 38.6     | 38.6     | 38.6    | 38.6    | 38.6    | 38.8    | 38.8 |  |
| GE 6000               | 17.3                             | 28.6     | 30.1     | 33.2     | 35.9     | 36.8     | 38.1     | 38.7     | 39.0     | 39.0     | 39.0     | 39.0     | 39.0    | 39.0    | 39.0    | 39.3    | 39.3 |  |
| GE 5000               | 18.5                             | 30.5     | 32.0     | 35.5     | 38.4     | 39.3     | 40.6     | 41.2     | 41.5     | 41.5     | 41.5     | 41.5     | 41.5    | 41.5    | 41.5    | 41.8    | 41.8 |  |
| GE 4500               | 20.4                             | 32.4     | 34.0     | 37.7     | 40.8     | 41.6     | 43.3     | 44.0     | 44.4     | 44.4     | 44.4     | 44.4     | 44.4    | 44.4    | 44.4    | 44.6    | 44.6 |  |
| GE 4000               | 21.1                             | 33.9     | 35.7     | 39.9     | 43.4     | 44.6     | 46.0     | 46.7     | 47.2     | 47.4     | 47.4     | 47.4     | 47.4    | 47.4    | 47.4    | 47.7    | 47.7 |  |
| GE 3500               | 22.7                             | 36.2     | 38.0     | 42.1     | 45.7     | 46.7     | 48.5     | 49.3     | 49.8     | 50.1     | 50.1     | 50.1     | 50.1    | 50.1    | 50.1    | 50.3    | 50.3 |  |
| GE 3000               | 24.3                             | 38.3     | 40.1     | 44.5     | 48.8     | 49.1     | 50.9     | 51.7     | 52.3     | 52.6     | 52.6     | 52.6     | 52.6    | 52.6    | 52.6    | 52.8    | 52.8 |  |
| GE 2500               | 26.2                             | 40.9     | 42.8     | 47.4     | 51.2     | 52.3     | 54.1     | 54.9     | 55.5     | 55.8     | 55.8     | 55.8     | 55.8    | 55.8    | 55.8    | 56.0    | 56.0 |  |
| GE 2000               | 29.2                             | 45.4     | 47.7     | 52.4     | 56.6     | 57.7     | 59.5     | 60.5     | 61.2     | 61.6     | 61.7     | 61.7     | 61.7    | 61.7    | 61.7    | 61.9    | 61.9 |  |
| GE 1800               | 30.7                             | 47.6     | 49.9     | 55.0     | 59.2     | 60.4     | 62.3     | 63.5     | 64.2     | 64.5     | 64.7     | 64.7     | 64.7    | 64.7    | 64.7    | 64.9    | 64.9 |  |
| GE 1500               | 32.7                             | 50.9     | 53.4     | 58.7     | 63.0     | 64.2     | 66.2     | 67.4     | 68.1     | 68.4     | 69.6     | 69.7     | 69.7    | 69.7    | 69.7    | 68.9    | 68.9 |  |
| GE 1200               | 35.0                             | 55.5     | 58.4     | 64.5     | 69.2     | 71.2     | 73.4     | 74.7     | 75.4     | 75.8     | 75.9     | 76.0     | 76.0    | 76.0    | 76.0    | 76.3    | 76.3 |  |
| GE 1000               | 36.1                             | 57.8     | 60.7     | 67.6     | 72.0     | 74.7     | 77.0     | 78.3     | 79.0     | 79.4     | 79.5     | 79.6     | 79.6    | 79.6    | 79.8    | 79.8    | 79.8 |  |
| GE 900                | 36.5                             | 58.7     | 61.8     | 66.7     | 73.7     | 75.8     | 78.1     | 79.4     | 80.1     | 80.4     | 80.5     | 80.7     | 80.7    | 80.7    | 80.9    | 80.9    | 80.9 |  |
| GE 800                | 36.7                             | 59.3     | 62.5     | 69.9     | 75.6     | 77.7     | 80.0     | 81.5     | 82.2     | 82.7     | 82.9     | 82.9     | 82.9    | 82.9    | 83.2    | 83.2    | 83.2 |  |
| GE 700                | 37.1                             | 60.5     | 63.8     | 71.4     | 77.3     | 79.6     | 82.0     | 83.6     | 84.6     | 85.1     | 85.2     | 85.3     | 85.3    | 85.3    | 85.5    | 85.5    | 85.5 |  |
| GE 600                | 37.1                             | 61.0     | 64.4     | 72.6     | 78.9     | 81.3     | 83.6     | 86.0     | 87.0     | 87.5     | 87.7     | 87.8     | 87.8    | 87.8    | 88.0    | 88.0    | 88.0 |  |
| GE 500                | 37.2                             | 61.3     | 65.1     | 73.4     | 80.3     | 82.7     | 85.2     | 87.7     | 88.7     | 89.3     | 89.4     | 89.6     | 89.6    | 89.6    | 89.8    | 89.8    | 89.8 |  |
| GE 400                | 37.4                             | 61.7     | 65.5     | 74.0     | 81.1     | 83.6     | 86.2     | 89.1     | 90.3     | 90.9     | 91.0     | 91.1     | 91.1    | 91.1    | 91.3    | 91.3    | 91.3 |  |
| GE 300                | 37.4                             | 62.0     | 66.2     | 74.9     | 82.3     | 84.8     | 87.7     | 90.5     | 91.9     | 92.6     | 93.0     | 93.1     | 93.2    | 93.2    | 93.5    | 93.5    | 93.5 |  |
| GE 200                | 37.4                             | 62.0     | 66.2     | 74.9     | 82.7     | 85.3     | 88.6     | 92.2     | 94.0     | 94.9     | 95.4     | 95.5     | 96.0    | 96.0    | 96.3    | 96.4    | 96.4 |  |
| GE 100                | 37.4                             | 62.0     | 66.2     | 74.9     | 82.7     | 85.8     | 89.1     | 92.8     | 94.9     | 96.2     | 96.8     | 97.0     | 97.6    | 98.0    | 98.3    | 98.3    | 98.3 |  |
| GE 0                  | 37.4                             | 62.0     | 66.2     | 74.9     | 82.7     | 85.8     | 89.1     | 92.8     | 94.9     | 96.2     | 96.9     | 97.2     | 97.9    | 98.3    | 98.7    | 100.0   |      |  |

TOTAL NUMBER OF OBSERVATIONS: 843

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1500-1700

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |
| NO CEIL               | 10.8                             | 15.6     | 16.4     | 18.2     | 19.7     | 19.9     | 20.1     | 20.5     | 20.6     | 20.6     | 20.6     | 20.6    | 20.6    | 20.6    | 20.6    | 20.6  |
| GE 20000              | 16.7                             | 24.5     | 25.5     | 28.4     | 30.3     | 30.6     | 31.1     | 31.8     | 31.9     | 31.9     | 31.9     | 31.9    | 31.9    | 31.9    | 31.9    | 31.9  |
| GE 18000              | 16.8                             | 24.6     | 25.7     | 28.5     | 30.5     | 30.7     | 31.2     | 31.9     | 32.0     | 32.0     | 32.0     | 32.0    | 32.0    | 32.0    | 32.0    | 32.0  |
| GE 16000              | 16.9                             | 24.7     | 25.8     | 28.7     | 30.6     | 31.3     | 32.0     | 32.7     | 32.1     | 32.1     | 32.1     | 32.1    | 32.1    | 32.1    | 32.1    | 32.1  |
| GE 14000              | 17.1                             | 25.2     | 26.4     | 29.3     | 31.3     | 31.5     | 32.0     | 32.7     | 32.9     | 32.9     | 32.9     | 32.9    | 32.9    | 32.9    | 32.9    | 32.9  |
| GE 12000              | 18.1                             | 26.6     | 28.1     | 30.9     | 33.1     | 33.5     | 33.9     | 34.7     | 34.8     | 34.8     | 34.8     | 34.8    | 34.8    | 34.8    | 34.8    | 34.8  |
| GE 10000              | 19.2                             | 28.2     | 29.7     | 32.9     | 35.0     | 35.4     | 35.9     | 36.6     | 36.7     | 36.7     | 36.7     | 36.7    | 36.7    | 36.7    | 36.7    | 36.7  |
| GE 9000               | 19.8                             | 29.3     | 30.8     | 34.2     | 36.3     | 36.8     | 37.4     | 38.2     | 38.4     | 38.4     | 38.4     | 38.4    | 38.4    | 38.4    | 38.4    | 38.4  |
| GE 8000               | 19.8                             | 29.7     | 31.3     | 34.7     | 36.9     | 37.5     | 38.1     | 39.0     | 39.1     | 39.1     | 39.1     | 39.1    | 39.1    | 39.1    | 39.1    | 39.1  |
| GE 7000               | 19.9                             | 30.0     | 31.5     | 34.9     | 37.2     | 37.8     | 38.5     | 39.3     | 39.4     | 39.4     | 39.4     | 39.4    | 39.4    | 39.4    | 39.4    | 39.4  |
| GE 6000               | 20.3                             | 30.3     | 31.9     | 35.3     | 37.5     | 38.1     | 38.8     | 39.7     | 39.8     | 39.8     | 39.8     | 39.8    | 39.8    | 39.8    | 39.8    | 39.8  |
| GE 5000               | 20.7                             | 31.7     | 33.2     | 36.8     | 39.1     | 39.7     | 40.4     | 41.5     | 41.6     | 41.6     | 41.6     | 41.6    | 41.6    | 41.6    | 41.6    | 41.6  |
| GE 4500               | 21.7                             | 33.1     | 34.8     | 38.8     | 41.4     | 42.0     | 42.7     | 43.8     | 44.1     | 44.2     | 44.2     | 44.2    | 44.2    | 44.2    | 44.2    | 44.2  |
| GE 4000               | 23.4                             | 35.3     | 37.2     | 41.4     | 44.0     | 44.7     | 45.4     | 46.6     | 47.1     | 47.2     | 47.2     | 47.2    | 47.2    | 47.2    | 47.2    | 47.2  |
| GE 3500               | 25.2                             | 37.3     | 39.4     | 43.6     | 46.3     | 47.0     | 47.7     | 49.0     | 49.5     | 49.6     | 49.6     | 49.6    | 49.6    | 49.6    | 49.6    | 49.6  |
| GE 3000               | 28.1                             | 41.1     | 43.4     | 47.8     | 50.5     | 51.2     | 51.9     | 53.2     | 53.7     | 53.8     | 53.8     | 53.8    | 53.8    | 53.8    | 53.8    | 53.8  |
| GE 2500               | 31.5                             | 45.6     | 48.3     | 53.2     | 56.4     | 57.1     | 57.8     | 59.4     | 59.8     | 60.0     | 60.0     | 60.1    | 60.1    | 60.1    | 60.1    | 60.1  |
| GE 2000               | 35.6                             | 50.5     | 53.8     | 59.2     | 62.6     | 63.2     | 64.0     | 65.7     | 66.3     | 66.4     | 66.4     | 66.5    | 66.5    | 66.5    | 66.5    | 66.5  |
| GE 1800               | 37.3                             | 53.1     | 56.7     | 63.1     | 66.3     | 67.3     | 68.1     | 69.8     | 70.4     | 70.6     | 70.6     | 70.7    | 70.7    | 70.7    | 70.7    | 70.7  |
| GE 1500               | 38.8                             | 55.6     | 59.5     | 66.2     | 69.7     | 70.9     | 71.7     | 73.9     | 74.5     | 74.8     | 74.8     | 74.9    | 74.9    | 74.9    | 74.9    | 74.9  |
| GE 1200               | 39.3                             | 57.7     | 61.6     | 68.9     | 72.8     | 74.2     | 75.3     | 77.7     | 78.3     | 78.6     | 78.6     | 78.6    | 78.6    | 78.6    | 78.6    | 78.6  |
| GE 1000               | 40.2                             | 59.7     | 64.0     | 71.8     | 75.9     | 77.7     | 79.1     | 81.5     | 82.3     | 82.7     | 82.9     | 83.0    | 83.0    | 83.0    | 83.0    | 83.0  |
| GE 900                | 40.4                             | 60.1     | 64.6     | 73.0     | 77.5     | 79.4     | 80.8     | 83.2     | 83.9     | 84.4     | 84.5     | 84.7    | 84.7    | 84.7    | 84.7    | 84.7  |
| GE 800                | 40.4                             | 60.4     | 65.3     | 74.0     | 78.5     | 80.6     | 82.3     | 84.8     | 85.5     | 86.0     | 86.1     | 86.2    | 86.2    | 86.2    | 86.2    | 86.2  |
| GE 700                | 40.4                             | 60.8     | 66.1     | 74.9     | 79.7     | 81.9     | 83.6     | 86.5     | 87.2     | 87.6     | 87.8     | 87.9    | 87.9    | 87.9    | 87.9    | 87.9  |
| GE 600                | 40.4                             | 61.2     | 66.5     | 75.5     | 80.4     | 83.0     | 84.8     | 87.8     | 88.5     | 89.1     | 89.2     | 89.3    | 89.3    | 89.3    | 89.3    | 89.3  |
| GE 500                | 40.4                             | 61.6     | 67.0     | 76.3     | 81.5     | 84.2     | 86.0     | 89.0     | 89.7     | 90.3     | 90.5     | 90.6    | 90.6    | 90.6    | 90.6    | 90.6  |
| GE 400                | 40.4                             | 62.1     | 67.5     | 76.7     | 82.1     | 85.0     | 87.1     | 90.2     | 91.2     | 91.8     | 92.2     | 92.3    | 92.3    | 92.3    | 92.3    | 92.3  |
| GE 300                | 40.4                             | 62.2     | 67.7     | 77.2     | 82.9     | 85.9     | 88.2     | 91.4     | 92.4     | 93.0     | 93.4     | 93.5    | 93.6    | 93.6    | 93.6    | 93.6  |
| GE 200                | 40.4                             | 62.4     | 68.0     | 77.5     | 83.8     | 86.9     | 89.3     | 93.2     | 94.8     | 95.4     | 95.8     | 95.9    | 96.0    | 96.2    | 96.2    | 96.2  |
| GE 100                | 40.4                             | 62.4     | 68.0     | 77.5     | 83.9     | 87.3     | 89.8     | 94.2     | 96.2     | 97.1     | 97.6     | 97.7    | 98.0    | 98.3    | 98.4    | 98.4  |
| GE 01                 | 40.4                             | 62.4     | 68.0     | 77.5     | 83.9     | 87.3     | 89.8     | 94.2     | 96.2     | 97.2     | 97.7     | 98.0    | 98.3    | 98.9    | 99.0    | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 834

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1800-2000

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>90 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 12.0                             | 19.9     | 20.7     | 23.4     | 25.7     | 26.4     | 26.9     | 27.2     | 28.0     | 28.2     | 28.5     | 28.6     | 28.6    | 28.6    | 28.6    | 28.6    |
| GE 20000              | 15.3                             | 25.2     | 26.3     | 29.7     | 32.1     | 32.8     | 33.5     | 34.1     | 34.9     | 35.2     | 35.4     | 35.5     | 35.5    | 35.6    | 35.6    | 35.6    |
| GE 18000              | 15.3                             | 25.4     | 26.4     | 29.8     | 32.2     | 32.9     | 33.6     | 34.2     | 35.0     | 35.3     | 35.5     | 35.6     | 35.6    | 35.8    | 35.8    | 35.8    |
| GE 16000              | 15.3                             | 25.4     | 26.4     | 29.8     | 32.2     | 32.9     | 33.6     | 34.2     | 35.0     | 35.3     | 35.5     | 35.6     | 35.6    | 35.8    | 35.8    | 35.8    |
| GE 14000              | 15.7                             | 26.3     | 27.5     | 30.9     | 33.4     | 34.2     | 36.9     | 35.5     | 36.4     | 36.6     | 36.8     | 37.0     | 37.0    | 37.1    | 37.1    | 37.1    |
| GE 12000              | 16.3                             | 27.5     | 28.7     | 32.2     | 34.8     | 35.6     | 36.4     | 37.0     | 37.8     | 38.0     | 38.3     | 38.4     | 38.4    | 38.5    | 38.5    | 38.5    |
| GE 10000              | 17.0                             | 29.2     | 31.2     | 35.0     | 37.9     | 39.1     | 40.0     | 40.6     | 41.4     | 41.6     | 41.9     | 42.0     | 42.0    | 42.1    | 42.1    | 42.1    |
| GE 9000               | 17.3                             | 29.7     | 31.7     | 35.5     | 38.4     | 39.6     | 40.7     | 41.3     | 42.1     | 42.3     | 42.6     | 42.7     | 42.7    | 42.8    | 42.8    | 42.8    |
| GE 8000               | 17.3                             | 29.7     | 31.7     | 35.5     | 38.4     | 39.6     | 40.7     | 41.3     | 42.1     | 42.3     | 42.6     | 42.7     | 42.7    | 42.8    | 42.8    | 42.8    |
| GE 7000               | 17.3                             | 29.7     | 31.7     | 35.6     | 38.5     | 39.8     | 40.9     | 41.5     | 42.3     | 42.6     | 42.8     | 42.9     | 42.9    | 43.1    | 43.1    | 43.1    |
| GE 6000               | 17.5                             | 30.1     | 32.2     | 36.1     | 39.0     | 40.3     | 41.5     | 42.1     | 42.9     | 43.2     | 43.4     | 43.5     | 43.5    | 43.7    | 43.7    | 43.7    |
| GE 5000               | 17.8                             | 31.0     | 33.3     | 37.4     | 40.4     | 41.7     | 43.1     | 43.7     | 44.5     | 44.7     | 45.0     | 45.1     | 45.1    | 45.2    | 45.2    | 45.2    |
| GE 4500               | 18.8                             | 32.2     | 34.4     | 38.8     | 41.9     | 43.2     | 44.6     | 45.3     | 46.2     | 46.4     | 46.7     | 46.8     | 46.8    | 46.9    | 46.9    | 46.9    |
| GE 4000               | 18.9                             | 32.4     | 34.7     | 39.2     | 42.3     | 43.9     | 45.3     | 46.2     | 47.0     | 47.4     | 47.6     | 47.7     | 47.7    | 47.8    | 47.8    | 47.8    |
| GE 3500               | 19.3                             | 33.3     | 35.5     | 40.2     | 43.3     | 44.9     | 46.5     | 47.4     | 48.2     | 48.6     | 48.8     | 48.9     | 48.9    | 49.0    | 49.0    | 49.0    |
| GE 3000               | 20.2                             | 36.1     | 38.5     | 43.8     | 46.9     | 48.6     | 50.4     | 51.2     | 52.0     | 52.4     | 52.6     | 52.8     | 52.8    | 52.9    | 52.9    | 52.9    |
| GE 2500               | 22.2                             | 40.3     | 43.1     | 48.9     | 52.4     | 54.1     | 55.9     | 56.9     | 57.8     | 58.1     | 58.4     | 58.5     | 58.5    | 58.6    | 58.6    | 58.6    |
| GE 2000               | 25.0                             | 44.5     | 47.6     | 54.1     | 58.1     | 60.0     | 62.1     | 63.3     | 64.2     | 64.7     | 65.0     | 65.1     | 65.1    | 65.2    | 65.2    | 65.2    |
| GE 1800               | 25.7                             | 45.7     | 49.2     | 56.5     | 60.5     | 62.6     | 64.6     | 66.1     | 67.2     | 67.8     | 68.1     | 68.2     | 68.2    | 68.3    | 68.3    | 68.3    |
| GE 1500               | 26.7                             | 48.1     | 52.3     | 60.0     | 64.5     | 67.0     | 69.1     | 71.1     | 72.2     | 73.0     | 73.2     | 73.3     | 73.3    | 73.4    | 73.4    | 73.4    |
| GE 1200               | 27.3                             | 49.9     | 54.1     | 62.2     | 67.7     | 70.0     | 73.0     | 76.0     | 77.4     | 78.2     | 78.5     | 78.6     | 78.6    | 78.7    | 78.7    | 78.7    |
| GE 1000               | 27.8                             | 50.7     | 55.3     | 63.9     | 69.9     | 72.8     | 76.0     | 79.4     | 81.0     | 81.9     | 82.2     | 82.3     | 82.3    | 82.4    | 82.4    | 82.4    |
| GE 900                | 27.8                             | 51.2     | 56.2     | 64.8     | 70.8     | 74.2     | 77.3     | 81.0     | 82.5     | 83.5     | 83.7     | 83.9     | 83.9    | 84.0    | 84.0    | 84.0    |
| GE 800                | 28.1                             | 51.7     | 56.7     | 65.8     | 72.1     | 75.5     | 78.6     | 82.4     | 84.1     | 85.2     | 85.4     | 85.5     | 85.5    | 85.6    | 85.6    | 85.6    |
| GE 700                | 28.3                             | 52.3     | 57.3     | 66.5     | 73.4     | 77.2     | 80.3     | 84.3     | 86.0     | 87.1     | 87.3     | 87.4     | 87.4    | 87.6    | 87.6    | 87.6    |
| GE 600                | 28.3                             | 52.3     | 57.4     | 67.2     | 74.3     | 78.2     | 81.6     | 86.0     | 87.9     | 89.0     | 89.2     | 89.4     | 89.4    | 89.5    | 89.5    | 89.5    |
| GE 500                | 29.5                             | 52.5     | 57.8     | 67.9     | 75.1     | 79.1     | 82.5     | 87.3     | 89.2     | 90.4     | 90.7     | 90.9     | 90.9    | 91.0    | 91.0    | 91.0    |
| GE 400                | 29.6                             | 52.9     | 58.5     | 68.8     | 76.3     | 80.5     | 84.1     | 89.1     | 91.1     | 92.3     | 92.6     | 92.8     | 92.8    | 92.9    | 92.9    | 92.9    |
| GE 300                | 28.6                             | 53.1     | 58.9     | 69.3     | 77.0     | 81.2     | 84.8     | 90.4     | 92.5     | 93.7     | 93.9     | 94.1     | 94.1    | 94.3    | 94.3    | 94.3    |
| GE 200                | 28.6                             | 53.1     | 59.2     | 69.6     | 77.8     | 82.2     | 85.9     | 91.7     | 94.4     | 95.6     | 95.9     | 96.1     | 96.1    | 96.2    | 96.2    | 96.2    |
| GE 100                | 28.6                             | 53.1     | 59.2     | 69.9     | 78.1     | 82.7     | 86.4     | 92.6     | 95.6     | 96.9     | 97.1     | 97.5     | 97.5    | 97.6    | 97.7    | 97.7    |
| GE 0                  | 28.6                             | 53.1     | 59.2     | 69.9     | 78.1     | 82.7     | 86.4     | 92.6     | 95.6     | 96.9     | 97.1     | 97.5     | 97.7    | 98.1    | 98.3    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 836

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 2100-2300

| CEILING  | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|----------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|          | IN                               | GT   | GE   | GF   | GE    |
| FELT     | 160                              | 90   | 80   | 60   | 40   | 30   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 3    | 0     |
| NO CEIL  | 1                                | 10.9 | 17.3 | 18.3 | 21.0 | 23.5 | 25.2 | 25.7 | 26.9 | 27.5 | 27.8 | 27.9 | 28.1 | 28.4 | 28.5 | 28.5  |
| GE 20000 | 1                                | 12.8 | 21.0 | 22.4 | 25.8 | 28.3 | 30.2 | 31.1 | 32.9 | 33.8 | 34.2 | 34.3 | 34.5 | 34.9 | 35.1 | 35.1  |
| GE 18000 | 1                                | 12.8 | 21.0 | 22.4 | 25.8 | 28.3 | 30.2 | 31.1 | 32.9 | 33.8 | 34.2 | 34.3 | 34.5 | 34.9 | 35.1 | 35.1  |
| GE 16000 | 1                                | 12.9 | 21.1 | 22.5 | 25.9 | 28.4 | 30.3 | 31.2 | 33.0 | 33.9 | 34.3 | 34.4 | 34.7 | 35.0 | 35.3 | 35.3  |
| GE 14000 | 1                                | 13.2 | 21.6 | 23.0 | 26.4 | 28.9 | 30.8 | 31.7 | 33.5 | 34.4 | 34.8 | 34.9 | 35.1 | 35.5 | 35.7 | 35.7  |
| GE 12000 | 1                                | 13.4 | 22.8 | 24.3 | 27.7 | 30.5 | 32.4 | 33.3 | 35.3 | 36.2 | 36.6 | 36.7 | 36.9 | 37.3 | 37.5 | 37.5  |
| GE 10000 | 1                                | 13.5 | 23.7 | 25.5 | 29.1 | 31.9 | 34.9 | 36.9 | 37.9 | 38.2 | 38.4 | 38.6 | 39.0 | 39.2 | 39.2 | 39.2  |
| GE 9000  | 1                                | 13.7 | 24.2 | 26.1 | 29.9 | 32.6 | 34.7 | 35.6 | 37.6 | 38.6 | 39.0 | 39.1 | 39.3 | 39.7 | 39.9 | 39.9  |
| GE 8000  | 1                                | 13.7 | 24.3 | 26.3 | 30.0 | 32.7 | 34.8 | 35.9 | 37.9 | 38.8 | 39.2 | 39.3 | 39.6 | 39.9 | 40.2 | 40.2  |
| GE 7000  | 1                                | 13.7 | 24.3 | 26.3 | 30.0 | 32.7 | 34.8 | 36.0 | 38.0 | 39.0 | 39.3 | 39.4 | 39.7 | 40.0 | 40.3 | 40.3  |
| GE 6000  | 1                                | 13.8 | 24.5 | 26.5 | 30.2 | 33.2 | 35.3 | 36.5 | 38.6 | 39.6 | 39.9 | 40.0 | 40.3 | 40.6 | 40.9 | 40.9  |
| GE 5000  | 1                                | 14.4 | 25.7 | 27.9 | 31.7 | 34.9 | 36.9 | 38.1 | 40.3 | 41.2 | 41.6 | 41.7 | 42.0 | 42.3 | 42.6 | 42.6  |
| GE 4500  | 1                                | 15.1 | 26.5 | 28.8 | 32.6 | 35.9 | 38.1 | 39.3 | 41.6 | 42.6 | 42.9 | 43.0 | 43.3 | 43.6 | 43.9 | 43.9  |
| GE 4000  | 1                                | 15.6 | 27.2 | 29.7 | 33.8 | 37.1 | 39.4 | 40.9 | 43.3 | 44.4 | 44.7 | 44.8 | 45.1 | 45.4 | 45.7 | 45.7  |
| GE 3500  | 1                                | 15.7 | 27.8 | 30.6 | 34.7 | 38.0 | 40.5 | 42.0 | 44.6 | 45.7 | 46.0 | 46.2 | 46.4 | 46.8 | 47.0 | 47.0  |
| GE 3000  | 1                                | 16.3 | 30.3 | 33.6 | 38.2 | 42.0 | 44.5 | 46.0 | 48.9 | 50.0 | 50.4 | 50.5 | 50.7 | 51.1 | 51.3 | 51.3  |
| GE 2500  | 1                                | 17.6 | 33.1 | 36.8 | 41.8 | 45.7 | 48.2 | 50.0 | 53.0 | 54.1 | 54.4 | 54.6 | 54.8 | 55.2 | 55.4 | 55.4  |
| GE 2000  | 1                                | 20.3 | 37.5 | 41.5 | 47.4 | 51.4 | 54.2 | 56.0 | 59.0 | 60.1 | 60.6 | 60.7 | 60.9 | 61.3 | 61.5 | 61.5  |
| GE 1800  | 1                                | 20.7 | 38.6 | 42.7 | 48.6 | 52.8 | 55.8 | 57.7 | 61.0 | 62.1 | 62.8 | 62.9 | 63.5 | 63.8 | 63.8 | 63.8  |
| GE 1500  | 1                                | 21.8 | 40.6 | 45.0 | 51.3 | 55.9 | 59.0 | 61.2 | 64.9 | 65.9 | 66.8 | 66.9 | 67.1 | 67.5 | 67.7 | 67.7  |
| GE 1200  | 1                                | 22.8 | 42.8 | 47.5 | 55.0 | 60.1 | 64.1 | 66.7 | 71.1 | 72.3 | 73.1 | 73.3 | 73.5 | 73.9 | 74.1 | 74.1  |
| GE 1000  | 1                                | 23.3 | 44.5 | 49.3 | 57.6 | 62.8 | 67.3 | 69.8 | 74.9 | 76.5 | 77.3 | 77.5 | 77.7 | 78.1 | 78.3 | 78.3  |
| GE 900   | 1                                | 23.3 | 44.8 | 49.6 | 58.0 | 63.4 | 68.1 | 70.6 | 75.8 | 77.5 | 78.3 | 78.4 | 78.7 | 79.0 | 79.3 | 79.3  |
| GE 800   | 1                                | 23.3 | 45.6 | 50.0 | 58.5 | 64.3 | 69.4 | 72.2 | 77.9 | 79.6 | 80.5 | 80.6 | 80.8 | 81.2 | 81.4 | 81.4  |
| GE 700   | 1                                | 23.4 | 45.4 | 50.5 | 59.5 | 65.7 | 71.0 | 73.7 | 79.5 | 81.3 | 82.1 | 82.3 | 82.5 | 83.0 | 83.2 | 83.2  |
| GE 600   | 1                                | 23.5 | 46.5 | 51.7 | 60.9 | 67.4 | 73.4 | 76.1 | 82.1 | 83.9 | 84.8 | 84.9 | 85.1 | 85.6 | 86.0 | 86.0  |
| GE 500   | 1                                | 23.7 | 46.9 | 52.0 | 61.4 | 68.2 | 74.5 | 77.2 | 83.2 | 85.1 | 86.0 | 86.1 | 86.3 | 86.8 | 87.2 | 87.2  |
| GE 400   | 1                                | 23.7 | 47.1 | 52.6 | 62.5 | 69.5 | 76.5 | 79.5 | 85.6 | 87.6 | 88.6 | 88.7 | 89.0 | 89.4 | 89.8 | 89.8  |
| GE 300   | 1                                | 23.7 | 48.0 | 53.8 | 64.1 | 71.3 | 78.4 | 81.7 | 88.8 | 91.0 | 92.1 | 92.2 | 92.4 | 92.9 | 93.3 | 93.3  |
| GE 200   | 1                                | 23.9 | 48.1 | 54.1 | 64.4 | 71.7 | 79.0 | 82.4 | 90.0 | 92.3 | 93.9 | 94.1 | 94.4 | 94.8 | 95.2 | 95.2  |
| GE 100   | 1                                | 23.9 | 48.1 | 54.1 | 64.4 | 71.8 | 79.1 | 82.5 | 90.2 | 92.7 | 94.7 | 95.2 | 95.4 | 95.9 | 96.3 | 96.4  |
| GE 0     | 1                                | 23.9 | 48.1 | 54.1 | 64.4 | 71.8 | 79.1 | 82.5 | 90.2 | 92.7 | 94.7 | 95.2 | 95.4 | 96.5 | 97.4 | 97.5  |
|          |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 834

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                       | GT<br>160                        | GE<br>90 | GF<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GT<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>3 |       |
| NO CEIL               | 9.6                              | 15.6     | 16.9     | 18.9     | 20.9     | 22.0     | 22.8     | 23.9     | 24.5     | 24.8     | 25.0     | 25.1    | 25.3    | 25.4    | 25.6    | 25.8  |
| GE 20000              | 12.8                             | 20.6     | 22.2     | 24.9     | 27.2     | 28.5     | 29.5     | 31.0     | 31.8     | 32.0     | 32.2     | 32.4    | 32.5    | 32.8    | 32.8    | 33.2  |
| GE 18000              | 12.8                             | 20.7     | 22.3     | 25.0     | 27.3     | 28.6     | 29.6     | 31.1     | 31.9     | 32.2     | 32.4     | 32.5    | 32.7    | 32.9    | 32.9    | 33.4  |
| GE 16000              | 12.9                             | 20.7     | 22.3     | 25.0     | 27.1     | 28.6     | 29.7     | 31.2     | 32.0     | 32.2     | 32.4     | 32.6    | 32.7    | 33.0    | 33.0    | 33.5  |
| GE 14000              | 13.1                             | 21.2     | 22.8     | 25.5     | 27.0     | 29.2     | 30.3     | 31.8     | 32.6     | 32.9     | 33.0     | 33.2    | 33.3    | 33.6    | 33.6    | 34.1  |
| GE 12000              | 13.4                             | 22.0     | 23.7     | 26.6     | 29.1     | 30.4     | 31.6     | 33.1     | 33.9     | 34.2     | 34.3     | 34.5    | 34.7    | 34.9    | 34.9    | 35.4  |
| GE 10000              | 13.9                             | 23.0     | 24.9     | 28.0     | 30.6     | 32.1     | 33.3     | 34.9     | 35.7     | 36.0     | 36.2     | 36.3    | 36.5    | 36.7    | 36.8    | 37.2  |
| GE 9000               | 14.2                             | 23.5     | 25.5     | 28.7     | 31.4     | 32.8     | 34.1     | 35.8     | 36.5     | 36.9     | 37.1     | 37.2    | 37.4    | 37.6    | 37.7    | 38.1  |
| GE 8000               | 14.3                             | 23.7     | 25.8     | 29.0     | 31.7     | 32.2     | 34.4     | 36.1     | 36.9     | 37.3     | 37.4     | 37.6    | 37.7    | 38.0    | 38.1    | 38.5  |
| GE 7000               | 14.4                             | 23.9     | 25.9     | 29.1     | 31.9     | 33.3     | 34.6     | 36.3     | 37.1     | 37.4     | 37.6     | 37.8    | 37.9    | 38.2    | 38.3    | 38.7  |
| GE 6000               | 14.5                             | 24.1     | 26.2     | 29.5     | 32.3     | 33.8     | 35.1     | 36.8     | 37.6     | 37.9     | 38.1     | 38.3    | 38.5    | 38.7    | 38.8    | 39.2  |
| GE 5000               | 15.2                             | 25.3     | 27.5     | 31.0     | 33.8     | 35.3     | 36.7     | 38.5     | 39.3     | 39.7     | 39.9     | 40.1    | 40.2    | 40.5    | 40.6    | 41.1  |
| GE 4500               | 16.2                             | 26.6     | 28.9     | 32.5     | 35.4     | 37.0     | 38.4     | 40.3     | 41.2     | 41.5     | 41.8     | 41.9    | 42.1    | 42.4    | 42.4    | 42.9  |
| GE 4000               | 16.8                             | 27.5     | 29.9     | 33.7     | 36.8     | 38.5     | 39.9     | 41.9     | 42.8     | 43.2     | 43.4     | 43.6    | 43.8    | 44.1    | 44.2    | 44.6  |
| GE 3500               | 17.5                             | 28.6     | 31.1     | 35.0     | 38.1     | 39.8     | 41.4     | 43.5     | 44.4     | 44.8     | 45.0     | 45.2    | 45.4    | 45.7    | 46.2    |       |
| GE 3000               | 18.8                             | 30.9     | 33.5     | 37.9     | 41.2     | 43.0     | 44.7     | 46.9     | 47.9     | 48.4     | 48.6     | 48.8    | 49.0    | 49.2    | 49.3    | 49.8  |
| GE 2500               | 20.8                             | 34.3     | 37.0     | 41.8     | 45.4     | 47.3     | 49.0     | 51.4     | 52.4     | 52.9     | 53.1     | 53.3    | 53.5    | 53.8    | 53.8    | 54.3  |
| GE 2000               | 23.3                             | 38.1     | 41.1     | 46.4     | 50.2     | 52.2     | 54.0     | 56.5     | 57.6     | 58.1     | 58.3     | 58.6    | 58.8    | 59.1    | 59.1    | 59.6  |
| GE 1800               | 24.3                             | 39.6     | 42.6     | 48.5     | 52.3     | 54.4     | 56.3     | 58.9     | 60.0     | 60.7     | 61.0     | 61.2    | 61.4    | 61.7    | 61.7    | 62.2  |
| GE 1500               | 25.7                             | 41.8     | 45.3     | 51.3     | 55.4     | 57.7     | 59.8     | 62.6     | 63.8     | 64.6     | 64.8     | 65.1    | 65.3    | 65.6    | 65.6    | 66.2  |
| GE 1200               | 26.7                             | 44.2     | 47.8     | 54.5     | 59.2     | 61.9     | 64.5     | 67.8     | 69.1     | 69.9     | 70.2     | 70.4    | 70.6    | 70.9    | 71.0    | 71.5  |
| GE 1000               | 27.4                             | 45.9     | 49.6     | 57.1     | 62.3     | 65.2     | 67.9     | 71.5     | 72.9     | 73.8     | 74.1     | 74.3    | 74.5    | 74.8    | 74.9    | 75.4  |
| GE 900                | 27.6                             | 46.5     | 50.4     | 58.0     | 63.3     | 66.3     | 69.0     | 72.7     | 74.1     | 75.0     | 75.3     | 75.6    | 75.8    | 76.1    | 76.2    | 76.7  |
| GE 800                | 27.8                             | 47.1     | 51.2     | 59.1     | 64.8     | 68.0     | 70.8     | 74.7     | 76.2     | 77.2     | 77.5     | 77.7    | 77.9    | 78.2    | 78.3    | 78.8  |
| GE 700                | 28.1                             | 47.8     | 52.2     | 60.4     | 66.4     | 69.9     | 72.8     | 76.9     | 78.4     | 79.3     | 79.6     | 79.9    | 80.1    | 80.4    | 80.5    | 81.0  |
| GE 600                | 28.2                             | 48.4     | 53.0     | 61.6     | 68.0     | 71.9     | 74.9     | 79.2     | 80.8     | 81.8     | 82.1     | 82.4    | 82.6    | 82.9    | 83.0    | 83.5  |
| GE 500                | 28.4                             | 48.9     | 53.7     | 62.5     | 69.4     | 73.4     | 76.5     | 81.1     | 82.8     | 83.8     | 84.2     | 84.5    | 84.7    | 85.1    | 85.1    | 85.6  |
| GE 400                | 28.4                             | 49.4     | 54.3     | 63.4     | 70.7     | 75.0     | 78.3     | 83.4     | 85.2     | 86.4     | 86.8     | 87.1    | 87.3    | 87.6    | 87.7    | 88.2  |
| GE 300                | 28.5                             | 49.6     | 54.9     | 64.2     | 71.8     | 76.3     | 79.8     | 85.5     | 87.4     | 88.8     | 89.2     | 89.6    | 89.8    | 90.2    | 90.3    | 90.8  |
| GE 200                | 28.5                             | 49.8     | 55.0     | 64.4     | 72.4     | 76.9     | 80.7     | 86.8     | 89.2     | 90.8     | 91.4     | 91.8    | 92.2    | 92.7    | 92.8    | 93.4  |
| GE 100                | 28.5                             | 49.8     | 55.1     | 64.5     | 72.5     | 77.2     | 81.0     | 87.5     | 90.0     | 92.0     | 92.9     | 93.4    | 93.9    | 94.6    | 94.8    | 96.1  |
| GE 0                  | 28.5                             | 49.8     | 55.1     | 64.5     | 72.5     | 77.2     | 81.0     | 87.5     | 90.1     | 92.2     | 93.2     | 93.8    | 94.6    | 95.6    | 96.0    | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 6689

GLOBAL CLIMATOLOGY BRANCH  
USAFA/TAC  
AER WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 07860 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 0000-0200

| CEILING |        | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |
|---------|--------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----|
| IN      | FT     | GE                               | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE   | GE    | GE |
| FEET    | 1000   | 90                               | 80   | 60   | 40   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 3    | 2    | 1    | 0     |    |
| NO CEST | 1      | 19.6                             | 25.0 | 25.5 | 26.0 | 27.0 | 28.2 | 28.8 | 30.0 | 31.1 | 31.6 | 31.6 | 32.0 | 32.5 | 32.5 | 32.7  |    |
| GE      | 100001 | 25.0                             | 32.1 | 32.7 | 33.9 | 34.5 | 35.7 | 36.5 | 39.0 | 39.2 | 39.8 | 39.8 | 40.1 | 40.8 | 40.8 | 41.0  |    |
| GE      | 180001 | 25.0                             | 32.1 | 32.7 | 33.9 | 34.5 | 35.7 | 36.5 | 39.0 | 39.2 | 39.8 | 39.8 | 40.1 | 40.8 | 40.8 | 41.0  |    |
| GE      | 160001 | 25.0                             | 32.1 | 32.7 | 33.9 | 34.5 | 35.7 | 36.5 | 39.0 | 39.3 | 39.9 | 39.9 | 40.2 | 40.9 | 40.9 | 41.1  |    |
| GE      | 140001 | 25.0                             | 32.1 | 32.7 | 33.9 | 34.5 | 35.0 | 36.2 | 37.2 | 39.7 | 40.0 | 40.5 | 40.5 | 40.9 | 41.5 | 41.7  |    |
| GE      | 120001 | 25.0                             | 32.1 | 32.7 | 33.9 | 34.5 | 35.0 | 36.2 | 37.2 | 39.7 | 40.0 | 40.4 | 41.0 | 41.3 | 42.0 | 42.0  |    |
| GE      | 100001 | 26.5                             | 34.5 | 35.1 | 36.7 | 37.5 | 38.7 | 39.7 | 42.2 | 42.5 | 43.0 | 43.0 | 43.4 | 44.0 | 44.0 | 44.2  |    |
| GE      | 90001  | 27.1                             | 35.2 | 36.0 | 37.8 | 38.7 | 40.0 | 41.0 | 43.5 | 43.8 | 44.3 | 44.3 | 44.7 | 45.3 | 45.3 | 45.5  |    |
| GE      | 80001  | 27.3                             | 35.4 | 36.2 | 38.0 | 38.9 | 40.2 | 41.2 | 43.7 | 44.0 | 44.6 | 44.6 | 44.9 | 45.5 | 45.5 | 45.8  |    |
| GE      | 70001  | 27.3                             | 35.7 | 36.4 | 38.0 | 39.2 | 40.5 | 41.5 | 44.0 | 44.3 | 44.9 | 44.9 | 45.2 | 45.9 | 45.9 | 46.1  |    |
| GE      | 60001  | 27.6                             | 36.2 | 37.2 | 39.2 | 40.1 | 41.4 | 42.4 | 44.9 | 45.2 | 45.8 | 45.8 | 46.1 | 46.7 | 46.7 | 47.0  |    |
| GE      | 50001  | 28.9                             | 38.3 | 39.5 | 42.1 | 43.0 | 44.3 | 45.4 | 48.4 | 48.8 | 49.3 | 49.3 | 49.7 | 50.3 | 50.3 | 50.5  |    |
| GE      | 45001  | 29.9                             | 39.3 | 40.5 | 43.2 | 44.1 | 45.4 | 46.5 | 49.5 | 50.1 | 50.7 | 50.7 | 51.0 | 51.6 | 51.6 | 51.8  |    |
| GE      | 40001  | 30.2                             | 40.4 | 41.7 | 44.5 | 45.5 | 47.0 | 48.2 | 51.2 | 51.8 | 52.4 | 52.4 | 52.7 | 53.4 | 53.4 | 53.6  |    |
| GE      | 35001  | 31.1                             | 41.6 | 42.9 | 45.9 | 47.7 | 48.4 | 49.6 | 52.6 | 53.9 | 53.9 | 53.9 | 54.2 | 54.9 | 54.9 | 55.1  |    |
| GE      | 30001  | 32.7                             | 43.4 | 44.6 | 47.9 | 49.0 | 50.4 | 52.0 | 55.2 | 56.0 | 56.5 | 56.5 | 56.8 | 57.5 | 57.5 | 57.7  |    |
| GE      | 25001  | 35.0                             | 46.2 | 47.8 | 51.3 | 52.6 | 54.1 | 55.7 | 58.9 | 59.8 | 60.3 | 60.3 | 60.7 | 61.4 | 61.4 | 61.6  |    |
| GE      | 20001  | 36.7                             | 48.5 | 50.3 | 53.8 | 55.4 | 57.0 | 58.5 | 61.8 | 62.8 | 63.4 | 63.5 | 63.8 | 64.6 | 64.6 | 64.8  |    |
| GE      | 18001  | 36.7                             | 49.0 | 51.0 | 54.6 | 56.2 | 57.7 | 59.2 | 62.7 | 63.7 | 64.2 | 64.3 | 64.7 | 65.4 | 65.4 | 65.7  |    |
| GE      | 15001  | 37.7                             | 50.5 | 52.7 | 56.4 | 58.5 | 60.3 | 61.8 | 65.3 | 66.4 | 67.0 | 67.1 | 67.1 | 67.4 | 68.2 | 68.4  |    |
| GE      | 12001  | 38.9                             | 53.2 | 55.7 | 59.6 | 62.1 | 63.9 | 65.4 | 69.0 | 70.1 | 70.7 | 70.8 | 71.1 | 71.8 | 71.8 | 72.1  |    |
| GE      | 10001  | 39.9                             | 55.7 | 58.5 | 62.6 | 65.1 | 67.1 | 68.6 | 72.3 | 73.5 | 74.0 | 74.1 | 74.5 | 75.2 | 75.2 | 75.4  |    |
| GE      | 90001  | 40.5                             | 56.6 | 59.5 | 63.6 | 66.3 | 68.3 | 69.8 | 73.6 | 74.8 | 75.3 | 75.4 | 75.8 | 76.5 | 76.5 | 76.7  |    |
| GE      | 80001  | 41.0                             | 57.9 | 61.1 | 65.5 | 68.2 | 70.2 | 71.8 | 76.1 | 77.3 | 77.8 | 77.9 | 78.3 | 79.0 | 79.0 | 79.2  |    |
| GE      | 70001  | 41.1                             | 58.6 | 61.8 | 66.5 | 69.7 | 71.3 | 72.9 | 77.3 | 78.5 | 79.1 | 79.2 | 79.6 | 80.3 | 80.3 | 80.7  |    |
| GE      | 60001  | 41.2                             | 59.3 | 62.8 | 67.7 | 70.5 | 72.9 | 74.6 | 79.0 | 80.3 | 81.0 | 81.2 | 81.5 | 82.3 | 82.3 | 82.6  |    |
| GE      | 50001  | 41.3                             | 60.1 | 61.7 | 68.8 | 71.7 | 74.2 | 76.1 | 80.7 | 82.0 | 82.7 | 82.8 | 83.3 | 84.0 | 84.0 | 84.3  |    |
| GE      | 40001  | 41.6                             | 60.7 | 68.2 | 69.6 | 72.8 | 75.4 | 77.5 | 82.4 | 83.9 | 84.6 | 84.9 | 85.3 | 86.1 | 86.1 | 86.4  |    |
| GE      | 30001  | 41.8                             | 61.7 | 65.9 | 71.5 | 75.2 | 78.0 | 80.2 | 85.7 | 87.3 | 88.0 | 88.4 | 88.8 | 89.6 | 89.6 | 89.9  |    |
| GE      | 20001  | 41.8                             | 61.8 | 66.1 | 71.8 | 75.9 | 78.7 | 81.1 | 87.0 | 89.0 | 90.0 | 90.5 | 91.0 | 91.8 | 91.8 | 92.2  |    |
| GE      | 10001  | 41.8                             | 62.0 | 66.3 | 72.2 | 76.3 | 79.3 | 81.8 | 87.9 | 90.3 | 92.1 | 92.9 | 93.9 | 95.0 | 95.2 | 95.9  |    |
| GE      | 01     | 41.8                             | 62.0 | 66.3 | 72.2 | 76.3 | 79.5 | 82.0 | 88.0 | 90.4 | 92.4 | 92.7 | 94.1 | 94.7 | 97.0 | 100.0 |    |

TOTAL NUMBER OF OBSERVATIONS: 920

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 0300-0500

| CEILING<br>IN<br>FELL | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|--|
|                       | GT<br>160                        | GE<br>90 | GT<br>90 | GE<br>60 | GE<br>40 | GE<br>32 | GL<br>24 | GT<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |  |
| NO CEIL               | 13.8                             | 18.3     | 19.5     | 21.0     | 22.5     | 22.9     | 23.9     | 25.6     | 26.3     | 27.0     | 27.0     | 27.1    | 27.4    | 28.0    | 28.1    | 28.6  |  |  |
| GE 20000              | 17.8                             | 23.0     | 24.3     | 25.9     | 27.5     | 27.8     | 29.3     | 30.9     | 31.7     | 32.6     | 32.7     | 33.0    | 33.6    | 34.7    | 34.2    |       |  |  |
| GE 18000              | 17.8                             | 23.0     | 24.3     | 25.9     | 27.5     | 27.8     | 29.3     | 30.9     | 31.7     | 32.6     | 32.7     | 33.0    | 33.6    | 34.7    | 34.2    |       |  |  |
| GE 16000              | 17.8                             | 23.0     | 24.3     | 25.9     | 27.5     | 27.8     | 29.3     | 30.9     | 31.7     | 32.6     | 32.7     | 33.0    | 33.6    | 34.7    | 34.2    |       |  |  |
| GE 14000              | 18.0                             | 23.2     | 24.5     | 26.1     | 27.7     | 28.2     | 29.7     | 31.4     | 32.4     | 33.3     | 33.4     | 33.7    | 34.2    | 34.3    | 34.9    |       |  |  |
| GE 12000              | 18.6                             | 24.1     | 25.4     | 27.0     | 28.6     | 29.0     | 30.7     | 32.4     | 33.5     | 34.3     | 34.5     | 34.8    | 35.3    | 35.4    | 36.0    |       |  |  |
| GE 10000              | 19.3                             | 25.0     | 26.5     | 28.3     | 30.0     | 30.6     | 32.2     | 34.0     | 35.1     | 36.0     | 36.0     | 36.1    | 36.4    | 36.9    | 37.1    | 37.6  |  |  |
| GE 9000               | 19.5                             | 25.6     | 27.1     | 28.9     | 30.7     | 31.2     | 32.8     | 34.7     | 35.8     | 36.6     | 36.6     | 36.7    | 37.1    | 37.6    | 37.7    | 38.2  |  |  |
| GE 8000               | 19.8                             | 25.9     | 27.4     | 29.3     | 31.0     | 31.5     | 33.2     | 35.0     | 36.1     | 36.9     | 36.9     | 37.1    | 37.4    | 37.9    | 38.0    | 38.6  |  |  |
| GE 7000               | 19.8                             | 26.0     | 27.5     | 29.4     | 31.1     | 31.6     | 33.3     | 35.1     | 36.2     | 37.1     | 37.1     | 37.2    | 37.5    | 38.0    | 38.1    | 38.7  |  |  |
| GE 6000               | 20.3                             | 26.9     | 28.7     | 30.6     | 32.4     | 32.9     | 34.6     | 36.4     | 37.5     | 38.4     | 38.4     | 38.5    | 38.8    | 39.3    | 39.4    | 40.0  |  |  |
| GE 5000               | 21.8                             | 28.6     | 30.4     | 32.3     | 34.2     | 34.8     | 36.5     | 38.6     | 40.0     | 40.8     | 40.8     | 41.0    | 41.3    | 41.8    | 41.9    | 42.5  |  |  |
| GE 4500               | 22.9                             | 29.9     | 31.7     | 33.6     | 35.5     | 36.1     | 37.8     | 40.0     | 41.5     | 42.5     | 42.5     | 42.6    | 42.9    | 43.4    | 43.6    | 44.1  |  |  |
| GE 4000               | 23.6                             | 31.3     | 33.2     | 35.0     | 36.9     | 37.5     | 39.2     | 41.4     | 42.9     | 43.9     | 43.9     | 44.0    | 44.3    | 44.9    | 45.0    | 45.5  |  |  |
| GE 3500               | 23.8                             | 31.6     | 33.5     | 35.5     | 37.5     | 38.0     | 39.8     | 42.0     | 43.6     | 44.5     | 44.5     | 44.6    | 45.0    | 45.5    | 45.6    | 46.2  |  |  |
| GE 3000               | 25.0                             | 34.7     | 36.6     | 38.7     | 40.6     | 41.5     | 43.2     | 45.5     | 47.0     | 48.0     | 48.0     | 48.1    | 48.4    | 49.0    | 49.1    | 49.6  |  |  |
| GE 2500               | 29.1                             | 38.9     | 41.5     | 43.7     | 45.8     | 46.5     | 48.2     | 50.6     | 52.1     | 53.1     | 53.1     | 53.2    | 53.5    | 54.1    | 54.2    | 54.7  |  |  |
| GE 2000               | 31.4                             | 42.1     | 45.0     | 47.3     | 49.6     | 50.4     | 52.3     | 54.8     | 56.3     | 57.3     | 57.3     | 57.4    | 57.7    | 58.3    | 58.4    | 59.0  |  |  |
| GE 1800               | 32.3                             | 43.3     | 46.2     | 48.8     | 51.1     | 52.1     | 54.1     | 56.6     | 58.1     | 59.0     | 59.0     | 59.5    | 60.0    | 60.1    | 60.6    |       |  |  |
| GE 1500               | 33.2                             | 45.1     | 48.1     | 50.8     | 53.4     | 54.4     | 56.4     | 59.2     | 60.8     | 61.8     | 61.9     | 61.9    | 62.2    | 62.7    | 62.9    | 63.6  |  |  |
| GE 1200               | 34.3                             | 48.0     | 51.7     | 54.7     | 57.7     | 59.0     | 61.2     | 64.1     | 65.8     | 66.8     | 66.8     | 67.1    | 67.4    | 67.9    | 68.1    | 68.8  |  |  |
| GE 1000               | 35.1                             | 49.9     | 53.7     | 57.2     | 60.2     | 61.6     | 63.8     | 67.0     | 68.7     | 69.8     | 69.8     | 70.0    | 70.3    | 70.9    | 71.1    | 71.8  |  |  |
| GE 900                | 35.3                             | 50.9     | 54.8     | 58.4     | 61.4     | 63.1     | 65.2     | 66.4     | 70.2     | 71.3     | 71.3     | 71.5    | 71.8    | 72.4    | 72.6    | 73.3  |  |  |
| GE 800                | 35.5                             | 51.6     | 55.6     | 59.2     | 62.2     | 63.9     | 66.1     | 69.3     | 71.3     | 72.4     | 72.4     | 72.6    | 72.9    | 73.5    | 73.7    | 74.5  |  |  |
| GE 700                | 35.8                             | 52.2     | 56.3     | 60.0     | 63.7     | 65.1     | 67.3     | 70.7     | 72.8     | 74.0     | 74.0     | 74.2    | 74.5    | 75.1    | 75.3    | 76.2  |  |  |
| GE 600                | 36.3                             | 54.3     | 58.5     | 62.7     | 65.9     | 68.1     | 70.3     | 73.9     | 76.1     | 77.2     | 77.2     | 77.5    | 77.8    | 78.3    | 78.5    | 79.4  |  |  |
| GE 500                | 36.7                             | 55.7     | 60.1     | 64.9     | 68.1     | 71.0     | 73.1     | 76.7     | 78.9     | 80.2     | 80.2     | 80.4    | 80.7    | 81.3    | 81.5    | 82.3  |  |  |
| GE 400                | 36.7                             | 55.8     | 60.5     | 65.8     | 69.4     | 72.3     | 74.4     | 78.3     | 80.5     | 81.8     | 81.8     | 82.0    | 82.3    | 82.9    | 83.1    | 84.0  |  |  |
| GE 300                | 36.7                             | 56.6     | 61.5     | 67.7     | 71.5     | 74.6     | 76.9     | 81.6     | 84.1     | 85.8     | 85.9     | 86.1    | 86.5    | 87.0    | 87.2    | 88.1  |  |  |
| GE 200                | 36.7                             | 57.1     | 62.2     | 68.8     | 72.9     | 76.2     | 78.8     | 84.1     | 86.9     | 88.7     | 88.8     | 89.1    | 89.4    | 90.0    | 90.2    | 91.1  |  |  |
| GE 100                | 36.7                             | 57.1     | 67.2     | 69.0     | 73.7     | 77.4     | 80.2     | 86.3     | 89.2     | 91.1     | 91.1     | 91.7    | 92.3    | 93.1    | 93.3    | 94.8  |  |  |
| GE 0                  | 36.7                             | 57.1     | 62.2     | 69.0     | 73.7     | 77.5     | 80.3     | 86.5     | 89.4     | 91.4     | 92.0     | 92.4    | 93.4    | 95.0    | 95.6    | 100.0 |  |  |

TOTAL NUMBER OF OBSERVATIONS: 923

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 0600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |
|-----------------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----|
|                       | 01                               | GE    | GE |
| 160                   | 16.0                             | 40   | 40   | 60   | 60   | 40   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0     |    |
| NO CЕIL               | 10.5                             | 12.4 | 12.6 | 13.9 | 15.6 | 15.9 | 16.7 | 17.7 | 18.4 | 19.5 | 19.8 | 20.0 | 20.6 | 21.3 | 21.4 | 22.4 |       |    |
| GE 20000              | 14.8                             | 18.7 | 19.3 | 20.8 | 22.6 | 23.2 | 24.0 | 25.3 | 26.2 | 27.3 | 27.6 | 27.9 | 28.5 | 29.3 | 29.4 | 30.5 |       |    |
| GE 18000              | 14.9                             | 18.8 | 19.4 | 20.9 | 22.7 | 23.3 | 24.1 | 25.4 | 26.3 | 27.4 | 27.7 | 28.0 | 28.6 | 29.4 | 29.5 | 30.6 |       |    |
| GE 16000              | 14.9                             | 18.8 | 19.4 | 20.9 | 22.7 | 23.3 | 24.1 | 25.4 | 26.3 | 27.4 | 27.7 | 28.0 | 28.6 | 29.4 | 29.5 | 30.6 |       |    |
| GE 14000              | 15.2                             | 19.3 | 19.8 | 21.4 | 23.4 | 23.9 | 24.8 | 26.3 | 27.2 | 28.2 | 28.6 | 28.9 | 29.4 | 30.3 | 30.4 | 31.6 |       |    |
| GE 12000              | 15.6                             | 20.0 | 20.6 | 22.2 | 24.1 | 24.7 | 25.5 | 27.5 | 28.6 | 29.7 | 30.0 | 30.3 | 30.8 | 31.7 | 31.8 | 33.0 |       |    |
| GE 10000              | 17.6                             | 22.5 | 23.6 | 25.5 | 27.4 | 27.9 | 28.8 | 30.8 | 31.9 | 33.0 | 34.3 | 35.7 | 36.2 | 35.1 | 35.2 | 36.4 |       |    |
| GE 9000               | 16.3                             | 23.3 | 24.4 | 26.1 | 28.1 | 28.7 | 29.7 | 31.8 | 32.9 | 34.0 | 34.3 | 34.6 | 35.2 | 36.0 | 36.1 | 37.3 |       |    |
| GE 8000               | 18.7                             | 23.9 | 25.0 | 26.7 | 28.9 | 29.4 | 30.4 | 32.6 | 33.7 | 34.7 | 35.1 | 35.4 | 35.9 | 36.8 | 36.9 | 38.1 |       |    |
| GE 7000               | 19.9                             | 24.2 | 25.3 | 27.1 | 29.2 | 29.8 | 30.7 | 32.9 | 34.0 | 35.1 | 35.4 | 35.7 | 36.3 | 37.1 | 37.2 | 38.4 |       |    |
| GE 6000               | 19.4                             | 25.0 | 26.2 | 27.9 | 30.1 | 30.6 | 31.6 | 33.8 | 34.8 | 35.9 | 36.3 | 36.6 | 37.1 | 38.0 | 38.1 | 39.3 |       |    |
| GE 5000               | 19.8                             | 26.1 | 27.3 | 29.1 | 31.4 | 31.9 | 33.0 | 35.8 | 36.9 | 38.0 | 39.5 | 38.9 | 39.4 | 40.3 | 40.4 | 41.6 |       |    |
| GE 4500               | 21.3                             | 27.9 | 29.1 | 31.1 | 33.3 | 34.0 | 35.1 | 37.9 | 39.1 | 40.2 | 40.7 | 41.0 | 41.6 | 42.4 | 42.5 | 43.7 |       |    |
| GE 4000               | 22.1                             | 29.1 | 30.4 | 32.4 | 34.6 | 35.3 | 36.4 | 39.2 | 40.4 | 41.5 | 42.0 | 42.3 | 42.9 | 43.7 | 43.8 | 45.0 |       |    |
| GE 3500               | 22.4                             | 29.8 | 31.1 | 33.1 | 35.6 | 36.4 | 37.7 | 40.5 | 41.7 | 42.7 | 43.3 | 43.6 | 44.2 | 45.1 | 45.2 | 46.4 |       |    |
| GE 3000               | 23.6                             | 31.6 | 32.9 | 35.1 | 37.9 | 38.6 | 40.0 | 43.1 | 44.4 | 45.5 | 46.0 | 46.3 | 46.9 | 47.8 | 47.9 | 49.1 |       |    |
| GE 2500               | 25.2                             | 34.5 | 35.9 | 38.5 | 41.3 | 42.2 | 43.6 | 46.6 | 48.1 | 49.1 | 49.7 | 50.0 | 50.5 | 51.5 | 51.7 | 52.9 |       |    |
| GE 2000               | 27.3                             | 37.3 | 38.9 | 41.6 | 44.4 | 45.3 | 47.0 | 50.0 | 51.5 | 52.6 | 53.1 | 53.5 | 54.0 | 55.0 | 55.2 | 56.4 |       |    |
| GE 1800               | 28.1                             | 38.5 | 40.2 | 43.1 | 45.9 | 47.1 | 48.7 | 51.7 | 53.2 | 54.4 | 55.0 | 55.3 | 55.8 | 56.8 | 57.0 | 58.3 |       |    |
| GE 1700               | 28.9                             | 40.0 | 41.9 | 45.1 | 48.2 | 49.4 | 51.0 | 54.0 | 55.6 | 56.8 | 57.5 | 57.8 | 58.3 | 59.5 | 59.7 | 61.1 |       |    |
| GE 1200               | 31.6                             | 44.0 | 46.2 | 50.0 | 53.4 | 54.7 | 56.3 | 59.6 | 61.3 | 62.6 | 63.3 | 63.6 | 64.2 | 65.4 | 65.6 | 67.0 |       |    |
| GE 1100               | 35.1                             | 47.0 | 49.2 | 53.1 | 56.5 | 57.9 | 59.6 | 63.1 | 64.7 | 66.0 | 66.8 | 67.1 | 67.6 | 68.8 | 69.0 | 70.5 |       |    |
| GE 900                | 33.3                             | 47.8 | 50.1 | 54.0 | 57.4 | 58.8 | 60.6 | 64.1 | 65.7 | 67.0 | 67.7 | 68.1 | 68.6 | 69.8 | 70.0 | 71.4 |       |    |
| GE 800                | 35.4                             | 48.8 | 51.1 | 55.0 | 58.5 | 60.0 | 62.0 | 65.5 | 67.1 | 68.4 | 69.2 | 69.5 | 70.0 | 71.2 | 71.4 | 72.8 |       |    |
| GE 700                | 33.9                             | 49.9 | 52.3 | 56.4 | 60.0 | 61.7 | 63.9 | 67.5 | 69.2 | 70.5 | 71.2 | 71.5 | 72.1 | 73.3 | 73.5 | 74.9 |       |    |
| GE 600                | 34.2                             | 51.3 | 54.1 | 58.4 | 62.4 | 64.9 | 67.2 | 70.9 | 72.7 | 74.0 | 74.9 | 75.2 | 75.8 | 76.9 | 77.2 | 78.6 |       |    |
| GE 500                | 36.3                             | 52.1 | 55.3 | 60.3 | 64.8 | 67.3 | 69.6 | 73.4 | 75.2 | 76.5 | 77.5 | 77.8 | 78.4 | 79.5 | 79.8 | 81.3 |       |    |
| GE 400                | 34.4                             | 53.4 | 56.8 | 62.4 | 67.4 | 70.1 | 72.5 | 76.5 | 78.6 | 79.9 | 80.9 | 81.3 | 81.8 | 83.0 | 83.2 | 84.7 |       |    |
| GE 300                | 34.4                             | 53.7 | 57.4 | 63.5 | 68.7 | 71.9 | 74.6 | 79.3 | 81.4 | 83.0 | 84.0 | 84.4 | 85.0 | 86.1 | 86.4 | 87.9 |       |    |
| GE 200                | 34.5                             | 54.1 | 57.8 | 64.4 | 69.9 | 73.1 | 76.0 | 81.6 | 83.7 | 85.6 | 86.6 | 87.0 | 87.6 | 88.9 | 89.1 | 90.6 |       |    |
| GE 100                | 34.5                             | 54.1 | 57.8 | 64.5 | 70.7 | 73.8 | 76.8 | 83.1 | 85.4 | 87.4 | 88.6 | 89.3 | 89.9 | 91.7 | 92.0 | 94.3 |       |    |
| GF                    | 0                                | 30.5 | 54.1 | 57.8 | 64.5 | 70.6 | 74.0 | 77.2 | 83.5 | 85.9 | 88.2 | 89.5 | 90.3 | 91.1 | 94.4 | 95.1 | 100.0 |    |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
ATM WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87

MONTH: MAR HOURS(LST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GF<br>80 | GE<br>60 | GE<br>48 | GE<br>36 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 11.7                             | 14.6     | 15.1     | 15.8     | 16.8     | 17.9     | 18.1     | 19.4     | 19.8     | 20.5     | 20.6     | 20.6     | 20.8    | 20.9    | 21.1    |         |
| GE 20000              | 18.0                             | 22.3     | 23.0     | 23.9     | 24.6     | 26.1     | 26.8     | 28.5     | 29.1     | 29.7     | 29.8     | 29.8     | 29.8    | 29.8    | 29.8    | 29.8    |
| GE 18000              | 18.1                             | 22.5     | 23.1     | 24.0     | 24.9     | 26.2     | 26.9     | 28.6     | 29.2     | 29.8     | 29.9     | 29.9     | 29.9    | 29.9    | 29.9    | 29.9    |
| GE 16000              | 18.1                             | 22.5     | 23.1     | 24.1     | 25.1     | 26.4     | 27.0     | 28.7     | 29.4     | 30.0     | 30.2     | 30.2     | 30.2    | 30.2    | 30.4    | 30.7    |
| GE 14000              | 18.4                             | 22.9     | 23.5     | 24.5     | 25.5     | 26.8     | 27.4     | 29.2     | 29.8     | 30.5     | 30.6     | 30.6     | 30.6    | 30.9    | 31.1    |         |
| GE 12000              | 18.8                             | 24.0     | 24.6     | 25.7     | 26.7     | 28.0     | 28.7     | 30.6     | 31.2     | 31.9     | 32.0     | 32.0     | 32.0    | 32.4    | 32.4    | 32.8    |
| GE 10000              | 19.7                             | 25.5     | 26.2     | 27.4     | 28.4     | 29.7     | 30.5     | 32.5     | 33.2     | 33.8     | 33.9     | 33.9     | 33.9    | 34.3    | 34.4    | 34.7    |
| GE 9000               | 20.3                             | 26.4     | 27.1     | 28.5     | 29.7     | 31.0     | 31.9     | 34.1     | 34.7     | 35.4     | 35.5     | 35.5     | 35.5    | 35.8    | 35.9    | 36.2    |
| GE 8000               | 20.5                             | 26.9     | 27.7     | 29.1     | 30.3     | 31.6     | 32.4     | 34.7     | 35.4     | 36.0     | 36.1     | 36.1     | 36.1    | 36.4    | 36.6    | 36.9    |
| GE 7000               | 20.6                             | 27.1     | 27.9     | 29.3     | 30.5     | 31.8     | 32.6     | 34.9     | 35.6     | 36.2     | 36.3     | 36.3     | 36.3    | 36.7    | 36.8    | 37.1    |
| GE 6000               | 21.0                             | 27.8     | 28.6     | 30.0     | 31.2     | 32.5     | 33.4     | 35.7     | 36.3     | 37.0     | 37.1     | 37.1     | 37.1    | 37.4    | 37.5    | 37.9    |
| GE 5000               | 22.0                             | 29.1     | 30.2     | 31.7     | 33.1     | 34.6     | 35.6     | 38.0     | 38.8     | 39.7     | 39.8     | 39.8     | 39.8    | 40.1    | 40.2    | 40.6    |
| GE 4000               | 23.0                             | 31.0     | 32.2     | 34.1     | 35.6     | 37.1     | 38.3     | 40.8     | 41.8     | 42.6     | 42.7     | 42.7     | 42.7    | 43.1    | 43.2    | 43.5    |
| GE 3000               | 23.6                             | 31.9     | 33.2     | 35.0     | 36.6     | 38.4     | 39.6     | 42.2     | 43.2     | 44.0     | 44.1     | 44.1     | 44.1    | 44.5    | 44.6    | 44.9    |
| GE 3000               | 24.1                             | 32.6     | 34.1     | 35.9     | 37.4     | 39.3     | 40.5     | 43.1     | 44.0     | 44.9     | 45.0     | 45.0     | 45.0    | 45.3    | 45.4    | 45.8    |
| GE 2000               | 25.6                             | 34.3     | 35.7     | 37.6     | 39.2     | 41.0     | 42.2     | 44.8     | 45.8     | 46.6     | 46.7     | 46.7     | 46.7    | 47.1    | 47.2    | 47.5    |
| GE 2500               | 28.2                             | 37.7     | 39.2     | 41.2     | 42.9     | 44.8     | 46.0     | 48.7     | 49.7     | 50.5     | 50.7     | 50.7     | 50.7    | 51.0    | 51.1    | 51.4    |
| GE 2000               | 32.1                             | 43.1     | 44.9     | 47.1     | 49.1     | 51.3     | 52.6     | 55.3     | 56.3     | 57.2     | 57.3     | 57.3     | 57.3    | 57.6    | 57.7    | 58.0    |
| GE 1800               | 34.6                             | 46.3     | 48.2     | 50.3     | 52.5     | 54.7     | 56.0     | 58.7     | 59.7     | 60.5     | 60.6     | 60.6     | 60.6    | 61.0    | 61.1    | 61.4    |
| GE 1500               | 36.2                             | 48.9     | 51.1     | 53.3     | 55.6     | 57.8     | 59.1     | 61.8     | 62.8     | 63.7     | 63.8     | 63.8     | 63.8    | 64.1    | 64.2    | 64.5    |
| GE 1200               | 38.9                             | 53.3     | 56.2     | 58.6     | 61.7     | 63.6     | 64.9     | 67.7     | 68.7     | 69.5     | 69.6     | 69.6     | 69.6    | 70.0    | 70.1    | 70.4    |
| GE 1000               | 42.5                             | 56.0     | 59.4     | 61.9     | 64.6     | 66.9     | 68.2     | 71.0     | 72.0     | 73.0     | 73.1     | 73.1     | 73.1    | 73.4    | 73.5    | 73.9    |
| GE 900                | 40.9                             | 57.2     | 60.7     | 63.7     | 66.4     | 68.8     | 70.2     | 73.0     | 74.0     | 74.9     | 75.1     | 75.1     | 75.1    | 75.4    | 75.5    | 75.8    |
| GE 800                | 41.4                             | 59.1     | 63.0     | 66.2     | 69.7     | 71.5     | 73.1     | 75.9     | 76.9     | 77.9     | 78.0     | 78.0     | 78.0    | 78.3    | 78.4    | 78.7    |
| GE 700                | 42.2                             | 60.8     | 64.9     | 68.4     | 71.3     | 73.8     | 75.5     | 78.6     | 79.6     | 80.6     | 80.7     | 80.7     | 80.7    | 81.0    | 81.1    | 81.5    |
| GE 600                | 42.5                             | 62.0     | 66.2     | 69.6     | 73.1     | 75.8     | 77.7     | 81.3     | 82.4     | 83.4     | 83.5     | 83.5     | 83.5    | 83.9    | 83.9    | 84.3    |
| GE 500                | 42.7                             | 62.6     | 66.8     | 71.3     | 76.6     | 77.5     | 79.8     | 83.7     | 85.0     | 86.3     | 86.4     | 86.4     | 86.4    | 86.8    | 86.9    | 87.2    |
| GE 400                | 42.8                             | 63.0     | 67.5     | 72.3     | 76.4     | 79.6     | 82.5     | 86.6     | 87.9     | 89.3     | 89.5     | 89.6     | 89.6    | 89.9    | 90.0    | 90.3    |
| GE 300                | 42.9                             | 63.2     | 67.4     | 73.2     | 77.3     | 80.7     | 84.1     | 88.4     | 89.8     | 91.4     | 92.0     | 92.3     | 92.3    | 92.6    | 92.7    | 93.1    |
| GE 200                | 42.9                             | 63.3     | 68.0     | 73.5     | 77.9     | 81.5     | 84.9     | 89.7     | 91.1     | 93.1     | 93.6     | 94.0     | 94.3    | 94.6    | 94.7    | 95.0    |
| GE 100                | 42.8                             | 63.3     | 68.6     | 73.6     | 78.2     | 81.8     | 85.4     | 90.3     | 91.8     | 94.0     | 94.9     | 95.4     | 96.0    | 97.0    | 97.2    | 98.0    |
| GE 0                  | 42.9                             | 63.3     | 68.7     | 73.6     | 78.2     | 81.8     | 85.4     | 90.3     | 91.9     | 94.1     | 95.1     | 95.8     | 96.4    | 97.8    | 98.2    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 1200-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |      |      |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|------|------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>30 | GE<br>60 | GE<br>40 | GE<br>32 | GF<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GF<br>0 |      |      |      |       |
| NO CEIL               | 13.2                             | 16.2     | 16.4     | 17.4     | 18.6     | 18.6     | 18.8     | 19.2     | 19.2     | 19.2     | 19.2     | 19.2    | 19.2    | 19.2    | 19.2    | 19.2 | 19.2 | 19.2 | 19.2  |
| GE 20000              | 20.9                             | 24.3     | 24.7     | 25.8     | 27.0     | 27.0     | 27.3     | 27.7     | 27.7     | 27.7     | 27.7     | 27.7    | 27.7    | 27.7    | 27.7    | 27.7 | 27.7 | 27.7 | 27.7  |
| GE 18000              | 21.0                             | 24.5     | 24.8     | 25.9     | 27.1     | 27.1     | 27.4     | 27.8     | 27.8     | 27.8     | 27.8     | 27.8    | 27.8    | 27.8    | 27.8    | 27.8 | 27.8 | 27.8 | 27.8  |
| GF 16000              | 21.0                             | 24.5     | 24.8     | 25.9     | 27.1     | 27.1     | 27.4     | 27.8     | 27.8     | 27.8     | 27.8     | 27.8    | 27.8    | 27.8    | 27.8    | 27.8 | 27.8 | 27.8 | 27.8  |
| GE 14000              | 21.6                             | 25.1     | 25.4     | 26.5     | 27.7     | 27.7     | 28.1     | 28.5     | 28.5     | 28.5     | 28.5     | 28.5    | 28.5    | 28.5    | 28.5    | 28.5 | 28.5 | 28.5 | 28.5  |
| GE 12000              | 22.1                             | 25.5     | 25.9     | 27.0     | 28.2     | 28.2     | 28.5     | 28.9     | 28.9     | 28.9     | 28.9     | 28.9    | 28.9    | 28.9    | 28.9    | 28.9 | 28.9 | 28.9 | 28.9  |
| GE 10000              | 27.6                             | 27.2     | 27.5     | 28.6     | 29.8     | 29.8     | 30.1     | 30.6     | 30.6     | 30.6     | 30.6     | 30.6    | 30.6    | 30.6    | 30.6    | 30.6 | 30.6 | 30.6 | 30.6  |
| GE 9000               | 24.2                             | 27.8     | 28.3     | 29.4     | 30.6     | 30.6     | 31.3     | 31.3     | 31.3     | 31.3     | 31.3     | 31.3    | 31.3    | 31.3    | 31.3    | 31.3 | 31.3 | 31.3 | 31.3  |
| GE 8000               | 24.5                             | 28.3     | 28.7     | 29.8     | 31.2     | 31.2     | 31.6     | 32.0     | 32.0     | 32.0     | 32.0     | 32.0    | 32.0    | 32.0    | 32.0    | 32.0 | 32.0 | 32.0 | 32.0  |
| GE 7000               | 24.5                             | 28.4     | 28.8     | 29.9     | 31.3     | 31.3     | 31.7     | 32.1     | 32.1     | 32.1     | 32.1     | 32.1    | 32.1    | 32.1    | 32.1    | 32.1 | 32.1 | 32.1 | 32.1  |
| GE 6000               | 24.7                             | 28.7     | 29.1     | 30.3     | 31.8     | 31.9     | 32.2     | 32.6     | 32.6     | 32.8     | 32.8     | 32.8    | 32.8    | 32.8    | 32.8    | 32.8 | 32.8 | 32.8 | 32.8  |
| GE 5000               | 27.0                             | 32.0     | 32.4     | 33.8     | 35.4     | 35.8     | 36.2     | 36.8     | 36.8     | 36.9     | 36.9     | 36.9    | 36.9    | 36.9    | 36.9    | 36.9 | 36.9 | 36.9 | 36.9  |
| GE 4500               | 29.4                             | 33.6     | 34.5     | 36.2     | 37.6     | 38.2     | 38.6     | 39.2     | 39.3     | 39.4     | 39.4     | 39.4    | 39.4    | 39.4    | 39.4    | 39.4 | 39.4 | 39.4 | 39.4  |
| GE 4000               | 36.5                             | 36.2     | 37.2     | 39.3     | 40.8     | 41.3     | 41.8     | 42.5     | 42.6     | 42.7     | 42.7     | 42.7    | 42.7    | 42.7    | 42.7    | 42.7 | 42.7 | 42.7 | 42.7  |
| GE 3500               | 32.2                             | 38.1     | 39.1     | 41.2     | 42.9     | 43.3     | 43.9     | 44.5     | 44.7     | 44.8     | 44.8     | 44.8    | 44.8    | 44.8    | 44.8    | 44.8 | 44.8 | 44.8 | 44.8  |
| GE 3000               | 37.5                             | 41.7     | 42.7     | 44.8     | 46.6     | 47.1     | 47.6     | 48.3     | 48.4     | 48.5     | 48.5     | 48.5    | 48.5    | 48.5    | 48.5    | 48.5 | 48.5 | 48.5 | 48.5  |
| GF 2500               | 41.9                             | 49.6     | 50.7     | 53.1     | 54.9     | 55.3     | 55.9     | 56.6     | 56.7     | 56.8     | 56.8     | 56.8    | 56.8    | 56.8    | 56.8    | 56.8 | 56.8 | 56.8 | 56.8  |
| GE 2000               | 47.4                             | 57.0     | 58.2     | 60.7     | 63.7     | 63.4     | 64.0     | 64.6     | 64.7     | 64.8     | 64.8     | 64.8    | 64.8    | 64.8    | 64.8    | 64.8 | 64.8 | 64.8 | 64.8  |
| GE 1800               | 49.1                             | 59.4     | 60.6     | 63.2     | 65.5     | 65.9     | 66.6     | 67.2     | 67.4     | 67.5     | 67.5     | 67.5    | 67.5    | 67.5    | 67.5    | 67.5 | 67.5 | 67.5 | 67.5  |
| GE 1500               | 51.2                             | 63.3     | 64.8     | 67.8     | 70.2     | 70.6     | 71.6     | 72.3     | 72.5     | 72.6     | 72.6     | 72.6    | 72.6    | 72.6    | 72.6    | 72.6 | 72.6 | 72.6 | 72.6  |
| GF 1200               | 52.8                             | 67.5     | 69.5     | 73.4     | 76.0     | 76.4     | 77.5     | 78.2     | 78.5     | 78.7     | 78.7     | 78.7    | 78.7    | 78.7    | 78.7    | 78.7 | 78.7 | 78.7 | 78.7  |
| GE 1000               | 53.7                             | 68.7     | 71.0     | 75.2     | 78.1     | 78.6     | 79.9     | 80.9     | 81.2     | 81.4     | 81.4     | 81.4    | 81.4    | 81.4    | 81.4    | 81.4 | 81.4 | 81.4 | 81.4  |
| GE 900                | 54.4                             | 69.4     | 71.9     | 76.3     | 79.4     | FC.0     | 81.3     | 82.4     | 82.9     | 83.1     | 83.1     | 83.1    | 83.1    | 83.1    | 83.1    | 83.1 | 83.1 | 83.1 | 83.1  |
| GE 800                | 55.0                             | 70.5     | 73.5     | 78.2     | 81.3     | 92.4     | 83.7     | 84.9     | 85.4     | 85.7     | 85.7     | 85.7    | 85.7    | 85.7    | 85.7    | 85.7 | 85.7 | 85.7 | 85.7  |
| GE 700                | 55.3                             | 71.6     | 74.9     | 79.8     | 83.6     | 94.7     | 86.4     | 87.7     | 88.1     | 88.4     | 88.4     | 88.4    | 88.4    | 88.4    | 88.4    | 88.4 | 88.4 | 88.4 | 88.4  |
| GE 600                | 55.5                             | 72.7     | 76.4     | 81.6     | 86.2     | 97.4     | 89.2     | 90.7     | 91.2     | 91.6     | 91.7     | 91.7    | 91.7    | 91.7    | 91.7    | 91.7 | 91.7 | 91.7 | 91.7  |
| GF 500                | 55.7                             | 73.5     | 77.4     | 83.2     | 88.2     | 89.7     | 91.6     | 93.1     | 93.6     | 94.0     | 94.2     | 94.2    | 94.2    | 94.2    | 94.2    | 94.2 | 94.2 | 94.2 | 94.2  |
| GF 400                | 55.7                             | 73.8     | 77.8     | 84.0     | 89.2     | 96.7     | 92.7     | 94.3     | 94.9     | 95.3     | 96.0     | 96.0    | 96.0    | 96.0    | 96.0    | 96.0 | 96.0 | 96.0 | 96.0  |
| GE 300                | 55.7                             | 73.9     | 78.1     | 84.6     | 90.0     | 91.7     | 94.0     | 95.6     | 96.3     | 96.7     | 97.5     | 97.6    | 97.6    | 97.6    | 97.6    | 97.6 | 97.6 | 97.6 | 97.6  |
| GE 200                | 55.7                             | 73.9     | 78.1     | 84.7     | 90.1     | 91.9     | 94.4     | 96.2     | 97.2     | 97.7     | 98.5     | 98.6    | 98.6    | 98.6    | 98.6    | 98.6 | 98.6 | 98.6 | 98.6  |
| GE 100                | 55.7                             | 73.9     | 78.1     | 84.7     | 90.0     | 94.7     | 96.4     | 97.5     | 98.4     | 99.7     | 99.5     | 99.5    | 99.5    | 99.5    | 99.5    | 99.5 | 99.5 | 99.5 | 99.5  |
| GF 01                 | 55.7                             | 73.9     | 78.1     | 84.7     | 90.0     | 94.7     | 96.5     | 97.6     | 98.6     | 99.5     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    | 99.8 | 99.8 | 99.8 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 916

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87

MONTH: MAR

HOURS(LST): 1500-1700

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>30 | GE<br>60 | GE<br>40 | GE<br>32 | GL<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GF<br>0 |       |
| NO CEIL               | 15.0                             | 17.0     | 17.5     | 18.0     | 20.0     | 20.2     | 20.3     | 20.9     | 20.9     | 20.9     | 20.9     | 20.9    | 20.9    | 20.9    | 20.9    | 20.9  |
| GE 20000              | 25.9                             | 29.0     | 29.5     | 31.1     | 32.3     | 32.4     | 32.5     | 33.3     | 33.3     | 33.3     | 33.3     | 33.3    | 33.3    | 33.3    | 33.3    | 33.3  |
| GE 18000              | 26.2                             | 29.3     | 29.8     | 31.5     | 32.6     | 32.8     | 32.9     | 33.6     | 33.6     | 33.6     | 33.6     | 33.6    | 33.6    | 33.6    | 33.6    | 33.6  |
| GE 16000              | 26.2                             | 29.3     | 29.8     | 31.5     | 32.6     | 32.8     | 32.9     | 33.6     | 33.6     | 33.6     | 33.6     | 33.6    | 33.6    | 33.6    | 33.6    | 33.6  |
| GE 14000              | 26.6                             | 29.7     | 30.3     | 31.9     | 33.1     | 33.2     | 33.3     | 34.1     | 34.2     | 34.2     | 34.2     | 34.2    | 34.2    | 34.2    | 34.2    | 34.2  |
| GE 12000              | 27.3                             | 30.7     | 31.3     | 33.0     | 34.2     | 34.3     | 34.4     | 35.1     | 35.2     | 35.2     | 35.2     | 35.2    | 35.2    | 35.2    | 35.2    | 35.2  |
| GE 10000              | 28.5                             | 32.1     | 32.9     | 34.8     | 36.0     | 36.1     | 36.2     | 37.0     | 37.1     | 37.2     | 37.2     | 37.2    | 37.2    | 37.2    | 37.2    | 37.2  |
| GE 9000               | 29.4                             | 33.2     | 33.9     | 36.2     | 37.4     | 37.5     | 37.6     | 38.4     | 38.5     | 38.6     | 38.6     | 38.6    | 38.6    | 38.6    | 38.6    | 38.6  |
| GE 8000               | 30.0                             | 33.8     | 34.6     | 36.9     | 38.1     | 38.2     | 38.3     | 39.0     | 39.2     | 39.3     | 39.3     | 39.3    | 39.3    | 39.3    | 39.3    | 39.3  |
| GE 7000               | 30.2                             | 34.1     | 34.8     | 37.1     | 38.5     | 38.4     | 38.5     | 39.3     | 39.4     | 39.5     | 39.5     | 39.5    | 39.5    | 39.5    | 39.5    | 39.5  |
| GE 6000               | 31.1                             | 35.4     | 36.1     | 38.4     | 39.6     | 39.7     | 39.8     | 40.6     | 40.7     | 40.8     | 40.8     | 40.8    | 40.8    | 40.8    | 40.8    | 40.8  |
| GE 5000               | 33.1                             | 38.4     | 39.3     | 41.6     | 43.0     | 43.1     | 43.4     | 44.4     | 44.5     | 44.6     | 44.6     | 44.6    | 44.6    | 44.6    | 44.6    | 44.6  |
| GE 4500               | 35.5                             | 41.3     | 42.3     | 44.9     | 46.2     | 46.3     | 46.6     | 47.6     | 47.7     | 47.8     | 47.8     | 47.8    | 47.8    | 47.8    | 47.8    | 47.8  |
| GE 4000               | 37.5                             | 44.0     | 45.0     | 47.8     | 49.6     | 49.7     | 50.1     | 51.1     | 51.2     | 51.3     | 51.3     | 51.3    | 51.3    | 51.3    | 51.3    | 51.3  |
| GE 3500               | 38.6                             | 45.6     | 46.6     | 49.6     | 51.3     | 51.4     | 51.8     | 52.8     | 52.9     | 53.0     | 53.0     | 53.0    | 53.0    | 53.0    | 53.0    | 53.0  |
| GE 3000               | 40.6                             | 48.0     | 49.1     | 52.1     | 53.7     | 54.0     | 54.4     | 55.4     | 55.5     | 55.6     | 55.6     | 55.6    | 55.6    | 55.6    | 55.6    | 55.6  |
| GE 2500               | 44.1                             | 52.5     | 53.7     | 56.9     | 58.0     | 59.0     | 59.4     | 60.4     | 60.5     | 60.6     | 60.6     | 60.6    | 60.6    | 60.6    | 60.6    | 60.6  |
| GE 2000               | 50.0                             | 60.1     | 61.4     | 65.2     | 67.2     | 67.6     | 68.2     | 69.3     | 69.4     | 69.5     | 69.5     | 69.5    | 69.5    | 69.5    | 69.5    | 69.5  |
| GE 1800               | 51.3                             | 62.0     | 63.4     | 67.4     | 69.4     | 69.7     | 70.4     | 71.5     | 71.6     | 71.7     | 71.7     | 71.7    | 71.7    | 71.7    | 71.7    | 71.7  |
| GE 1500               | 53.4                             | 65.3     | 66.9     | 71.3     | 73.4     | 73.8     | 74.4     | 75.7     | 75.8     | 75.9     | 75.9     | 75.9    | 75.9    | 75.9    | 75.9    | 75.9  |
| GE 1200               | 55.5                             | 69.4     | 71.3     | 76.7     | 79.5     | 79.9     | 80.7     | 82.3     | 82.4     | 82.5     | 82.5     | 82.5    | 82.5    | 82.5    | 82.5    | 82.5  |
| GE 1000               | 55.9                             | 70.6     | 72.7     | 78.3     | 81.3     | 82.1     | 83.0     | 84.9     | 85.0     | 85.1     | 85.1     | 85.1    | 85.1    | 85.1    | 85.1    | 85.1  |
| GE 900                | 56.2                             | 71.5     | 73.8     | 79.5     | 82.5     | 93.3     | 84.2     | 86.3     | 86.6     | 86.7     | 86.7     | 86.7    | 86.7    | 86.7    | 86.7    | 86.7  |
| GE 800                | 56.4                             | 72.7     | 75.3     | 81.2     | 84.5     | 95.4     | 86.3     | 88.7     | 88.9     | 89.0     | 89.0     | 89.0    | 89.0    | 89.0    | 89.0    | 89.0  |
| GE 700                | 56.5                             | 73.5     | 76.2     | 82.5     | 86.0     | 87.0     | 88.0     | 90.6     | 90.8     | 90.9     | 90.9     | 90.9    | 90.9    | 90.9    | 90.9    | 90.9  |
| GE 600                | 56.8                             | 74.5     | 77.4     | 83.7     | 87.7     | 98.7     | 69.9     | 92.6     | 92.8     | 93.0     | 93.0     | 93.0    | 93.0    | 93.0    | 93.0    | 93.0  |
| GE 500                | 56.8                             | 74.6     | 77.0     | 84.5     | 88.6     | 89.9     | 91.1     | 93.9     | 94.1     | 94.4     | 94.4     | 94.4    | 94.4    | 94.4    | 94.4    | 94.4  |
| GE 400                | 56.9                             | 75.2     | 78.3     | 85.1     | 89.0     | 91.0     | 92.2     | 95.4     | 95.7     | 96.0     | 96.0     | 96.0    | 96.0    | 96.0    | 96.0    | 96.0  |
| GE 300                | 56.9                             | 75.3     | 79.5     | 85.8     | 90.3     | 92.0     | 93.4     | 96.9     | 97.1     | 97.4     | 97.4     | 97.4    | 97.4    | 97.4    | 97.4    | 97.4  |
| GE 200                | 56.9                             | 75.5     | 78.9     | 86.3     | 90.9     | 92.6     | 94.0     | 97.7     | 97.9     | 98.7     | 98.7     | 98.7    | 98.7    | 98.7    | 98.7    | 98.7  |
| GE 100                | 56.9                             | 75.5     | 78.9     | 86.3     | 90.6     | 92.8     | 94.4     | 98.2     | 98.4     | 99.5     | 99.5     | 99.6    | 99.7    | 99.7    | 99.7    | 99.7  |
| GE 0                  | 56.9                             | 75.5     | 78.9     | 86.3     | 90.9     | 92.8     | 94.4     | 98.2     | 98.4     | 99.5     | 99.6     | 99.6    | 99.8    | 100.0   | 100.0   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87

MONTH: MAR HOURS(LST): 1800-2000

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT                               | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 20.7                             | 24.0     | 24.3     | 25.3     | 26.5     | 27.5     | 27.8     | 28.8     | 29.1     | 29.3     | 29.3     | 29.3     | 29.3    | 29.3    | 29.3    | 29.3    |
| GE 2000               | 28.0                             | 32.6     | 33.1     | 34.4     | 36.3     | 37.0     | 37.4     | 38.7     | 39.0     | 39.2     | 39.2     | 39.3     | 39.3    | 39.3    | 39.3    | 39.3    |
| GE 1800               | 28.1                             | 32.7     | 33.2     | 34.5     | 36.4     | 37.1     | 37.5     | 38.8     | 39.1     | 39.3     | 39.3     | 39.4     | 39.4    | 39.4    | 39.4    | 39.4    |
| GE 1600               | 28.3                             | 33.0     | 33.6     | 34.9     | 36.7     | 37.5     | 37.8     | 39.1     | 39.4     | 39.6     | 39.6     | 39.7     | 39.7    | 39.7    | 39.7    | 39.7    |
| GE 1400               | 28.6                             | 33.2     | 33.8     | 35.1     | 36.9     | 37.7     | 38.0     | 39.3     | 39.6     | 39.8     | 39.8     | 40.0     | 40.0    | 40.0    | 40.0    | 40.0    |
| GE 1200               | 28.9                             | 33.8     | 34.3     | 35.9     | 37.8     | 38.5     | 38.9     | 40.2     | 40.5     | 40.7     | 40.7     | 40.8     | 40.8    | 40.8    | 40.8    | 40.8    |
| GE 1000               | 30.7                             | 36.2     | 36.7     | 38.5     | 40.4     | 41.2     | 41.5     | 42.8     | 43.1     | 43.3     | 43.3     | 43.4     | 43.4    | 43.4    | 43.4    | 43.4    |
| GE 900                | 31.7                             | 37.6     | 38.1     | 40.0     | 41.8     | 42.6     | 42.9     | 44.2     | 44.6     | 44.8     | 44.8     | 45.0     | 45.0    | 45.0    | 45.0    | 45.0    |
| GE 800                | 31.9                             | 37.8     | 38.3     | 40.3     | 42.1     | 42.9     | 43.2     | 44.5     | 45.1     | 45.3     | 45.3     | 45.4     | 45.4    | 45.4    | 45.4    | 45.4    |
| GE 700                | 31.9                             | 37.9     | 38.4     | 40.4     | 42.2     | 43.0     | 43.3     | 44.6     | 45.2     | 45.4     | 45.4     | 45.5     | 45.5    | 45.5    | 45.5    | 45.5    |
| GE 600                | 32.4                             | 38.5     | 39.2     | 41.2     | 43.1     | 43.9     | 44.2     | 45.5     | 46.0     | 46.3     | 46.3     | 46.4     | 46.4    | 46.4    | 46.4    | 46.4    |
| GE 500                | 34.0                             | 40.7     | 41.5     | 43.4     | 45.5     | 46.4     | 46.7     | 48.1     | 48.8     | 49.0     | 49.0     | 49.1     | 49.1    | 49.1    | 49.1    | 49.1    |
| GE 450                | 35.4                             | 42.5     | 43.4     | 45.5     | 47.6     | 48.4     | 48.8     | 50.2     | 50.8     | 51.0     | 51.1     | 51.2     | 51.2    | 51.2    | 51.2    | 51.2    |
| GE 400                | 36.5                             | 44.2     | 45.2     | 47.6     | 49.8     | 50.7     | 51.0     | 52.6     | 53.2     | 53.4     | 53.5     | 53.6     | 53.6    | 53.6    | 53.6    | 53.6    |
| GE 350                | 38.3                             | 46.3     | 47.2     | 49.6     | 52.0     | 52.9     | 53.2     | 54.7     | 55.4     | 55.6     | 55.7     | 55.8     | 55.8    | 55.8    | 55.8    | 55.8    |
| GE 300                | 40.9                             | 50.1     | 51.2     | 53.7     | 56.7     | 57.5     | 58.0     | 59.6     | 60.3     | 60.5     | 60.6     | 60.7     | 60.7    | 60.7    | 60.7    | 60.7    |
| GE 2500               | 43.2                             | 53.3     | 54.6     | 57.3     | 60.5     | 61.3     | 61.9     | 63.7     | 64.4     | 64.6     | 64.7     | 65.0     | 65.0    | 65.0    | 65.0    | 65.0    |
| GE 2000               | 45.4                             | 57.0     | 58.7     | 62.2     | 65.9     | 67.1     | 67.9     | 69.8     | 70.6     | 70.8     | 70.9     | 71.3     | 71.3    | 71.3    | 71.3    | 71.3    |
| GE 1800               | 46.4                             | 58.2     | 60.2     | 64.0     | 67.6     | 68.8     | 69.6     | 71.7     | 72.4     | 72.6     | 72.7     | 73.2     | 73.2    | 73.2    | 73.2    | 73.2    |
| GE 1500               | 47.7                             | 60.8     | 62.9     | 67.0     | 70.8     | 72.0     | 73.2     | 75.4     | 76.1     | 76.3     | 76.4     | 76.9     | 76.9    | 76.9    | 76.9    | 76.9    |
| GE 1200               | 49.6                             | 64.3     | 66.6     | 71.0     | 75.0     | 76.2     | 77.4     | 79.6     | 80.3     | 80.6     | 80.7     | 81.1     | 81.1    | 81.1    | 81.1    | 81.1    |
| GE 1000               | 49.0                             | 65.3     | 67.6     | 72.4     | 76.5     | 77.7     | 78.9     | 81.2     | 82.0     | 82.2     | 82.3     | 82.7     | 82.7    | 82.7    | 82.7    | 82.7    |
| GE 900                | 49.1                             | 65.8     | 68.2     | 73.0     | 77.4     | 78.7     | 79.9     | 82.2     | 83.0     | 83.2     | 83.3     | 83.7     | 83.7    | 83.7    | 83.7    | 83.7    |
| GE 800                | 49.1                             | 66.1     | 68.8     | 73.8     | 78.5     | 79.8     | 81.1     | 83.4     | 84.1     | 84.4     | 84.5     | 84.9     | 84.9    | 84.9    | 84.9    | 84.9    |
| GE 700                | 49.3                             | 67.0     | 69.7     | 75.0     | 80.0     | 81.3     | 82.6     | 85.2     | 86.0     | 86.2     | 86.3     | 86.8     | 86.8    | 86.8    | 86.8    | 86.8    |
| GE 600                | 49.3                             | 67.4     | 70.4     | 75.9     | 81.2     | 82.7     | 84.4     | 87.1     | 87.8     | 88.2     | 88.4     | 88.9     | 88.9    | 88.9    | 88.9    | 88.9    |
| GE 500                | 49.5                             | 68.1     | 71.4     | 77.1     | 82.4     | 83.9     | 85.6     | 88.3     | 89.0     | 89.4     | 89.6     | 90.1     | 90.1    | 90.1    | 90.1    | 90.1    |
| GE 400                | 49.9                             | 69.3     | 72.7     | 78.7     | 84.4     | 86.0     | 87.7     | 90.4     | 91.4     | 91.7     | 92.0     | 92.5     | 92.5    | 92.5    | 92.5    | 92.5    |
| GE 300                | 49.9                             | 69.6     | 73.3     | 79.7     | 85.6     | 87.5     | 89.5     | 92.4     | 93.5     | 94.1     | 94.5     | 95.0     | 95.0    | 95.0    | 95.0    | 95.0    |
| GE 200                | 49.9                             | 69.7     | 73.4     | 80.1     | 86.3     | 88.4     | 90.7     | 94.1     | 95.4     | 96.4     | 96.7     | 97.3     | 97.3    | 97.3    | 97.3    | 97.3    |
| GE 100                | 49.9                             | 69.7     | 73.5     | 80.2     | 86.4     | 88.6     | 91.0     | 94.7     | 96.1     | 97.4     | 98.0     | 98.6     | 98.8    | 98.9    | 98.9    | 99.0    |
| GE 0                  | 49.9                             | 69.7     | 73.5     | 80.2     | 86.4     | 88.6     | 91.0     | 94.7     | 96.2     | 97.5     | 98.6     | 99.1     | 99.5    | 99.7    | 99.7    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 921

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87

MONTH: MAR HOURS(LST): 2100-2300

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>90 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 24.1                             | 28.7     | 29.5     | 30.7     | 31.4     | 32.5     | 33.7     | 34.6     | 34.9     | 35.0     | 35.5     | 35.5     | 35.5    | 35.7    | 35.7    | 35.8    |
| GE 20000              | 29.6                             | 35.0     | 35.9     | 37.1     | 38.3     | 39.5     | 40.9     | 42.3     | 42.6     | 42.7     | 43.2     | 43.3     | 43.3    | 43.5    | 43.5    | 43.6    |
| GE 18000              | 29.6                             | 35.0     | 35.9     | 37.1     | 38.3     | 39.5     | 40.9     | 42.3     | 42.6     | 42.7     | 43.2     | 43.3     | 43.3    | 43.5    | 43.5    | 43.6    |
| GE 16000              | 29.6                             | 35.0     | 35.9     | 37.1     | 38.3     | 39.5     | 40.9     | 42.3     | 42.6     | 42.7     | 43.2     | 43.3     | 43.3    | 43.5    | 43.5    | 43.6    |
| GE 14000              | 30.1                             | 35.5     | 36.5     | 37.8     | 39.0     | 40.2     | 41.6     | 43.0     | 43.2     | 43.3     | 43.9     | 44.0     | 44.0    | 44.2    | 44.2    | 44.3    |
| GE 12000              | 30.2                             | 35.8     | 36.9     | 38.5     | 40.0     | 41.2     | 42.6     | 44.0     | 44.2     | 44.3     | 44.9     | 45.0     | 45.0    | 45.2    | 45.2    | 45.3    |
| GE 10000              | 30.6                             | 36.4     | 37.5     | 39.1     | 40.5     | 41.7     | 43.1     | 44.5     | 44.7     | 44.8     | 45.4     | 45.5     | 45.5    | 45.7    | 45.7    | 45.8    |
| GE 9000               | 30.8                             | 37.4     | 38.4     | 40.3     | 41.7     | 42.9     | 44.3     | 45.7     | 46.1     | 46.3     | 46.9     | 46.9     | 47.1    | 47.1    | 47.2    |         |
| GE 8000               | 30.8                             | 37.7     | 38.8     | 40.6     | 42.0     | 43.2     | 44.6     | 46.0     | 46.5     | 46.6     | 47.1     | 47.2     | 47.4    | 47.4    | 47.6    |         |
| GE 7000               | 30.8                             | 37.8     | 38.9     | 40.8     | 42.2     | 43.4     | 44.8     | 46.3     | 46.7     | 46.8     | 47.3     | 47.4     | 47.7    | 47.7    | 47.8    |         |
| GE 6000               | 31.6                             | 39.1     | 40.2     | 42.1     | 43.5     | 44.7     | 46.1     | 47.6     | 48.0     | 48.1     | 49.6     | 49.8     | 49.9    | 49.9    | 49.9    |         |
| GE 5000               | 32.7                             | 41.0     | 42.6     | 44.8     | 46.4     | 47.9     | 49.3     | 50.7     | 51.4     | 51.6     | 52.1     | 52.2     | 52.2    | 52.4    | 52.4    | 52.6    |
| GE 4500               | 33.4                             | 42.6     | 44.2     | 46.5     | 48.0     | 49.6     | 51.0     | 52.4     | 53.1     | 53.3     | 53.9     | 54.0     | 54.0    | 54.2    | 54.2    | 54.3    |
| GE 4000               | 34.3                             | 43.8     | 45.4     | 47.8     | 49.4     | 51.0     | 52.7     | 54.2     | 54.8     | 55.0     | 55.6     | 55.7     | 55.7    | 55.9    | 55.9    | 56.0    |
| GE 3500               | 35.6                             | 45.3     | 47.0     | 49.6     | 51.2     | 53.0     | 54.6     | 56.1     | 56.8     | 57.0     | 57.5     | 57.7     | 57.7    | 57.9    | 57.9    | 58.0    |
| GE 3000               | 36.8                             | 47.1     | 48.9     | 51.7     | 54.0     | 55.7     | 57.5     | 59.1     | 59.7     | 59.9     | 60.5     | 60.6     | 60.6    | 60.8    | 60.8    | 60.9    |
| GE 2500               | 38.3                             | 49.3     | 51.0     | 54.2     | 56.5     | 58.4     | 60.3     | 61.8     | 62.5     | 62.8     | 63.3     | 63.4     | 63.4    | 63.6    | 63.6    | 63.7    |
| GE 2000               | 39.7                             | 51.6     | 53.5     | 56.9     | 59.5     | 61.5     | 63.3     | 65.1     | 65.9     | 66.2     | 66.9     | 67.0     | 67.2    | 67.2    | 67.2    | 67.3    |
| GE 1800               | 41.0                             | 53.7     | 55.9     | 59.4     | 62.0     | 64.0     | 65.9     | 67.8     | 68.5     | 68.8     | 69.5     | 69.6     | 69.6    | 69.8    | 69.8    | 69.9    |
| GE 1500               | 42.6                             | 56.5     | 58.7     | 62.3     | 65.4     | 67.3     | 69.4     | 71.2     | 72.0     | 72.3     | 73.0     | 73.1     | 73.1    | 73.3    | 73.3    | 73.4    |
| GE 1200               | 43.3                             | 58.3     | 61.0     | 64.7     | 68.0     | 69.9     | 72.0     | 73.9     | 74.7     | 75.0     | 75.7     | 75.8     | 76.0    | 76.2    | 76.2    | 76.3    |
| GE 1000               | 43.6                             | 59.7     | 62.5     | 66.4     | 69.7     | 71.7     | 73.7     | 75.7     | 76.4     | 76.8     | 77.4     | 77.5     | 77.7    | 78.0    | 78.0    | 78.1    |
| GE 900                | 43.8                             | 60.2     | 63.1     | 67.3     | 70.8     | 72.7     | 74.8     | 76.8     | 77.5     | 77.9     | 78.5     | 78.6     | 78.8    | 79.0    | 79.0    | 79.2    |
| GE 800                | 43.9                             | 61.1     | 64.2     | 68.5     | 72.0     | 73.9     | 76.0     | 78.1     | 78.8     | 79.2     | 79.8     | 80.1     | 80.3    | 80.3    | 80.5    |         |
| GE 700                | 44.2                             | 62.2     | 65.7     | 70.0     | 73.6     | 75.6     | 77.7     | 79.9     | 80.7     | 81.0     | 81.7     | 81.8     | 82.0    | 82.2    | 82.2    | 82.3    |
| GE 600                | 44.3                             | 63.1     | 66.7     | 71.3     | 75.4     | 77.3     | 79.9     | 82.3     | 83.1     | 83.4     | 84.0     | 84.1     | 84.4    | 84.6    | 84.6    | 84.7    |
| GE 500                | 44.6                             | 64.1     | 67.9     | 72.6     | 76.8     | 78.8     | 81.5     | 83.9     | 84.7     | 85.0     | 85.8     | 85.9     | 86.1    | 86.3    | 86.3    | 86.4    |
| GE 400                | 45.3                             | 65.3     | 69.3     | 74.8     | 79.2     | 81.4     | 84.1     | 86.6     | 87.6     | 88.1     | 88.8     | 89.1     | 89.4    | 89.4    | 89.5    |         |
| GE 300                | 45.4                             | 66.0     | 70.2     | 76.1     | 80.9     | 84.0     | 87.0     | 90.2     | 91.3     | 91.7     | 92.5     | 92.6     | 92.8    | 93.1    | 93.1    | 93.2    |
| GE 200                | 45.4                             | 66.3     | 70.8     | 77.0     | 82.0     | 85.5     | 88.4     | 92.1     | 93.2     | 93.8     | 94.6     | 94.7     | 94.9    | 95.1    | 95.1    | 95.2    |
| GE 100                | 45.4                             | 66.3     | 70.8     | 77.0     | 82.0     | 85.5     | 88.4     | 92.6     | 94.2     | 95.8     | 96.7     | 96.9     | 97.1    | 97.4    | 97.4    | 97.7    |
| GE 71                 | 45.4                             | 66.3     | 70.8     | 77.0     | 82.0     | 85.5     | 88.4     | 92.6     | 94.2     | 95.9     | 97.0     | 97.3     | 97.7    | 98.4    | 98.4    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 921

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>90 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 16.1                             | 19.5     | 20.0     | 21.2     | 22.3     | 22.9     | 23.5     | 24.6     | 25.0     | 25.4     | 25.5     | 25.5     | 25.7    | 26.0    | 26.0    | 26.3    |
| GE 20000              | 22.5                             | 27.1     | 27.8     | 29.1     | 30.4     | 31.1     | 31.8     | 33.2     | 33.6     | 34.0     | 34.2     | 34.4     | 34.7    | 34.7    | 34.7    | 35.0    |
| GE 18000              | 22.6                             | 27.2     | 27.9     | 29.2     | 30.5     | 31.2     | 31.9     | 33.3     | 33.7     | 34.1     | 34.3     | 34.5     | 34.8    | 34.8    | 34.8    | 35.1    |
| GE 16000              | 22.6                             | 27.2     | 27.9     | 29.3     | 30.6     | 31.2     | 32.0     | 33.4     | 33.8     | 34.2     | 34.3     | 34.6     | 34.9    | 34.9    | 34.9    | 35.2    |
| GE 14000              | 23.0                             | 27.7     | 28.4     | 29.7     | 31.0     | 31.7     | 32.5     | 33.9     | 34.4     | 34.8     | 34.9     | 35.0     | 35.1    | 35.5    | 35.5    | 35.8    |
| GE 12000              | 23.4                             | 28.3     | 29.1     | 30.5     | 31.0     | 32.6     | 33.4     | 34.8     | 35.3     | 35.8     | 35.9     | 36.0     | 36.1    | 36.4    | 36.5    | 36.8    |
| GE 10000              | 24.6                             | 29.9     | 30.8     | 32.4     | 33.7     | 34.5     | 35.3     | 36.8     | 37.3     | 37.7     | 37.8     | 37.9     | 38.1    | 38.4    | 38.4    | 38.7    |
| GE 9000               | 25.2                             | 30.6     | 31.7     | 33.4     | 34.8     | 35.6     | 36.4     | 38.0     | 38.5     | 38.9     | 39.0     | 39.1     | 39.3    | 39.6    | 39.6    | 39.9    |
| GE 8000               | 25.4                             | 31.2     | 32.1     | 33.8     | 35.3     | 36.0     | 36.9     | 38.4     | 39.0     | 39.4     | 39.5     | 39.6     | 39.8    | 40.1    | 40.1    | 40.4    |
| GE 7000               | 25.5                             | 31.4     | 32.3     | 34.0     | 35.5     | 36.2     | 37.1     | 38.6     | 39.2     | 39.6     | 39.7     | 39.8     | 40.0    | 40.3    | 40.3    | 40.6    |
| GE 6000               | 26.0                             | 32.2     | 33.2     | 35.0     | 36.5     | 37.2     | 38.0     | 39.6     | 40.2     | 40.6     | 40.7     | 40.8     | 41.0    | 41.3    | 41.3    | 41.6    |
| GE 5000               | 27.4                             | 34.3     | 35.4     | 37.4     | 39.1     | 39.8     | 40.4     | 42.6     | 43.2     | 43.7     | 47.9     | 44.0     | 44.1    | 44.4    | 44.5    | 44.8    |
| GE 4500               | 28.7                             | 36.0     | 37.3     | 39.4     | 41.0     | 41.9     | 42.8     | 44.7     | 45.4     | 45.9     | 46.1     | 46.2     | 46.3    | 46.7    | 46.7    | 47.0    |
| GE 4000               | 29.8                             | 37.6     | 38.9     | 41.2     | 42.9     | 43.8     | 44.9     | 46.8     | 47.5     | 48.0     | 48.2     | 48.3     | 48.4    | 48.7    | 48.8    | 49.1    |
| GE 3500               | 30.8                             | 38.9     | 40.2     | 42.5     | 44.4     | 45.3     | 46.4     | 48.3     | 49.0     | 49.6     | 49.7     | 49.8     | 50.0    | 50.3    | 50.3    | 50.6    |
| GE 3000               | 32.7                             | 41.3     | 42.7     | 45.2     | 47.2     | 48.2     | 49.4     | 51.4     | 52.1     | 52.6     | 52.8     | 52.9     | 53.0    | 53.4    | 53.4    | 53.7    |
| GE 2500               | 35.6                             | 45.2     | 46.8     | 49.5     | 51.6     | 52.7     | 53.9     | 55.9     | 56.7     | 57.2     | 57.4     | 57.5     | 57.6    | 58.0    | 58.1    | 58.4    |
| GE 2000               | 38.7                             | 49.6     | 51.4     | 54.3     | 56.8     | 57.9     | 59.2     | 61.4     | 62.2     | 62.7     | 62.9     | 63.0     | 63.2    | 63.5    | 63.6    | 63.9    |
| GE 1800               | 39.9                             | 51.3     | 53.2     | 56.3     | 58.8     | 60.0     | 61.3     | 63.5     | 64.3     | 64.9     | 65.0     | 65.2     | 65.3    | 65.7    | 65.7    | 66.0    |
| GE 1500               | 41.3                             | 53.8     | 55.9     | 59.2     | 61.9     | 63.2     | 64.6     | 66.8     | 67.7     | 68.3     | 68.5     | 68.6     | 68.8    | 69.1    | 69.2    | 69.5    |
| GE 1200               | 43.0                             | 57.2     | 59.6     | 63.6     | 66.6     | 67.9     | 69.4     | 71.8     | 72.7     | 73.3     | 73.5     | 73.6     | 73.8    | 74.2    | 74.3    | 74.6    |
| GE 1000               | 43.8                             | 59.1     | 61.8     | 65.9     | 69.0     | 70.4     | 72.0     | 74.5     | 75.4     | 76.0     | 76.3     | 76.4     | 76.6    | 76.9    | 77.0    | 77.4    |
| GE 900                | 44.1                             | 59.9     | 62.7     | 67.0     | 70.2     | 71.7     | 73.2     | 75.8     | 76.8     | 77.4     | 77.6     | 77.8     | 77.9    | 78.3    | 78.4    | 78.7    |
| GE 800                | 44.5                             | 61.0     | 64.1     | 68.4     | 71.8     | 73.4     | 75.0     | 77.7     | 78.7     | 79.3     | 79.5     | 79.7     | 79.9    | 80.2    | 80.3    | 80.7    |
| GE 700                | 44.8                             | 62.0     | 65.2     | 69.8     | 73.3     | 75.0     | 76.8     | 79.7     | 80.7     | 91.3     | 81.5     | 81.7     | 81.9    | 82.2    | 82.3    | 82.7    |
| GE 600                | 45.0                             | 63.1     | 66.5     | 71.4     | 75.3     | 77.2     | 79.1     | 82.2     | 83.3     | 84.0     | 84.2     | 84.4     | 84.6    | 84.9    | 85.0    | 85.4    |
| GE 500                | 45.2                             | 63.8     | 67.6     | 72.8     | 76.9     | 79.0     | 81.0     | 84.2     | 85.3     | 86.0     | 86.3     | 86.5     | 86.7    | 87.1    | 87.1    | 87.5    |
| GE 400                | 45.4                             | 64.5     | 68.4     | 74.1     | 79.5     | 80.8     | 83.0     | 86.3     | 87.5     | 88.3     | 88.7     | 88.9     | 89.1    | 89.5    | 89.5    | 89.9    |
| GE 300                | 45.5                             | 65.0     | 69.1     | 75.3     | 80.0     | 92.5     | 84.9     | 88.8     | 90.1     | 91.0     | 91.5     | 91.7     | 91.9    | 92.3    | 92.4    | 92.8    |
| GE 200                | 45.5                             | 65.2     | 69.4     | 75.8     | 80.7     | 83.5     | 86.0     | 90.3     | 91.8     | 93.0     | 97.5     | 93.7     | 93.9    | 94.4    | 94.4    | 94.8    |
| GE 100                | 45.5                             | 65.2     | 69.4     | 75.9     | 81.0     | 93.9     | 86.6     | 91.2     | 92.8     | 94.4     | 95.2     | 95.5     | 95.9    | 96.5    | 96.6    | 97.4    |
| GE 0                  | 45.5                             | 65.2     | 69.4     | 75.9     | 81.0     | 93.9     | 86.6     | 91.3     | 93.0     | 94.7     | 95.6     | 96.0     | 96.5    | 97.8    | 98.0    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 7369

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0000-0200

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 21.3                             | 31.2     | 32.7     | 35.3     | 36.6     | 37.3     | 38.1     | 39.2     | 39.6     | 39.7     | 39.8     | 39.8     | 40.0    | 40.1    | 40.2    | 40.7    |
| GE 20000              | 27.1                             | 39.1     | 40.8     | 43.8     | 45.0     | 46.5     | 47.5     | 49.3     | 49.7     | 49.8     | 49.9     | 49.9     | 50.1    | 50.3    | 50.4    | 50.9    |
| GE 18000              | 27.7                             | 39.2     | 40.9     | 43.9     | 46.0     | 46.6     | 47.6     | 49.4     | 49.8     | 49.9     | 50.0     | 50.0     | 50.2    | 50.4    | 50.6    | 51.0    |
| GE 16000              | 27.2                             | 39.2     | 40.9     | 43.9     | 46.0     | 46.6     | 47.6     | 49.4     | 49.8     | 49.9     | 50.0     | 50.0     | 50.2    | 50.4    | 50.6    | 51.0    |
| GE 14000              | 27.5                             | 39.7     | 41.5     | 44.5     | 46.5     | 47.2     | 48.2     | 50.0     | 50.3     | 50.4     | 50.6     | 50.6     | 50.8    | 51.0    | 51.1    | 51.6    |
| GE 12000              | 27.9                             | 40.1     | 42.0     | 45.1     | 47.1     | 47.8     | 48.8     | 50.6     | 50.9     | 51.0     | 51.1     | 51.1     | 51.3    | 51.6    | 51.7    | 52.1    |
| GE 10000              | 29.1                             | 41.8     | 43.7     | 46.9     | 49.1     | 49.8     | 50.9     | 52.8     | 53.1     | 53.3     | 53.4     | 53.4     | 53.6    | 53.8    | 53.9    | 54.4    |
| GE 9000               | 29.3                             | 42.4     | 44.5     | 47.6     | 50.0     | 50.7     | 51.9     | 53.8     | 54.3     | 54.5     | 54.6     | 54.6     | 54.8    | 55.1    | 55.2    | 55.6    |
| GE 8000               | 29.6                             | 42.6     | 44.7     | 47.9     | 50.3     | 51.0     | 52.2     | 54.2     | 54.6     | 54.8     | 54.9     | 54.9     | 55.2    | 55.4    | 55.5    | 56.0    |
| GE 7000               | 29.6                             | 43.0     | 45.2     | 48.4     | 51.1     | 51.8     | 53.0     | 54.9     | 55.4     | 55.6     | 55.7     | 55.7     | 56.0    | 56.2    | 56.3    | 56.7    |
| GE 6000               | 30.2                             | 43.7     | 45.8     | 49.4     | 52.1     | 52.8     | 54.2     | 56.1     | 56.5     | 56.7     | 56.9     | 56.9     | 57.1    | 57.3    | 57.4    | 57.9    |
| GE 5000               | 30.9                             | 45.8     | 48.2     | 51.8     | 54.8     | 55.8     | 57.3     | 59.3     | 60.0     | 60.3     | 60.4     | 60.4     | 60.7    | 60.9    | 61.0    | 61.5    |
| GE 4500               | 31.5                             | 47.4     | 50.0     | 53.8     | 57.8     | 58.9     | 60.4     | 62.5     | 63.1     | 63.5     | 63.6     | 63.6     | 63.8    | 64.0    | 64.2    | 64.6    |
| GE 4000               | 32.4                             | 48.7     | 51.6     | 55.6     | 59.7     | 60.8     | 62.6     | 64.8     | 65.6     | 66.0     | 66.1     | 66.1     | 66.3    | 66.5    | 66.6    | 67.1    |
| GE 3500               | 33.0                             | 49.7     | 52.6     | 56.9     | 60.9     | 62.0     | 63.9     | 66.6     | 67.4     | 67.8     | 67.9     | 67.9     | 68.1    | 68.3    | 68.4    | 68.9    |
| GE 3000               | 34.6                             | 52.2     | 55.4     | 59.7     | 63.4     | 65.2     | 67.1     | 69.9     | 70.7     | 71.0     | 71.1     | 71.1     | 71.3    | 71.6    | 71.7    | 72.1    |
| GE 2500               | 35.6                             | 53.9     | 57.2     | 61.6     | 66.1     | 67.4     | 69.3     | 72.2     | 73.0     | 73.4     | 73.5     | 73.5     | 73.7    | 73.9    | 74.0    | 74.5    |
| GE 2000               | 37.0                             | 56.7     | 60.6     | 64.6     | 69.3     | 70.7     | 72.6     | 75.5     | 76.3     | 76.6     | 76.7     | 76.7     | 77.0    | 77.2    | 77.3    | 77.8    |
| GE 1800               | 37.6                             | 58.2     | 61.5     | 66.3     | 71.2     | 72.6     | 74.5     | 77.4     | 78.2     | 78.5     | 79.7     | 78.7     | 78.9    | 79.1    | 79.2    | 79.7    |
| GE 1500               | 38.8                             | 60.8     | 63.9     | 69.0     | 74.0     | 75.5     | 77.4     | 80.3     | 81.3     | 81.7     | 81.8     | 81.8     | 82.0    | 82.2    | 82.4    | 82.8    |
| GE 1200               | 39.8                             | 62.8     | 66.2     | 71.5     | 76.6     | 78.1     | 80.0     | 83.1     | 84.2     | 84.5     | 84.6     | 84.6     | 84.9    | 85.1    | 85.2    | 85.6    |
| GE 1000               | 40.1                             | 64.0     | 67.9     | 73.5     | 78.7     | 80.1     | 82.0     | 85.2     | 86.2     | 86.5     | 86.6     | 86.6     | 86.9    | 87.1    | 87.2    | 87.6    |
| GE 900                | 40.4                             | 65.4     | 69.2     | 74.8     | 80.2     | 81.5     | 83.4     | 86.7     | 87.8     | 88.1     | 88.2     | 88.2     | 88.4    | 88.7    | 88.8    | 89.2    |
| GE 800                | 40.7                             | 65.7     | 69.6     | 75.2     | 80.4     | 81.9     | 83.8     | 87.3     | 88.3     | 88.7     | 88.8     | 88.8     | 89.0    | 89.2    | 89.3    | 89.8    |
| GE 700                | 40.8                             | 66.6     | 70.7     | 76.4     | 81.7     | 83.3     | 85.2     | 88.8     | 89.8     | 90.1     | 90.2     | 90.2     | 90.4    | 90.7    | 90.8    | 91.2    |
| GE 600                | 41.0                             | 67.3     | 71.8     | 77.8     | 83.3     | 84.9     | 86.9     | 90.4     | 91.5     | 91.8     | 91.9     | 91.9     | 92.1    | 92.4    | 92.5    | 92.9    |
| GE 500                | 41.0                             | 68.0     | 72.5     | 78.4     | 83.9     | 85.8     | 87.8     | 91.3     | 92.4     | 92.7     | 92.8     | 92.8     | 93.0    | 93.3    | 93.4    | 93.8    |
| GE 400                | 41.0                             | 68.7     | 73.4     | 79.3     | 84.9     | 87.0     | 89.1     | 92.8     | 93.9     | 94.3     | 94.4     | 94.4     | 94.6    | 94.8    | 94.9    | 95.4    |
| GE 300                | 41.0                             | 68.9     | 73.6     | 79.8     | 86.1     | 86.4     | 90.8     | 95.1     | 96.2     | 96.5     | 96.6     | 96.6     | 96.9    | 97.1    | 97.2    | 97.6    |
| GE 200                | 41.0                             | 68.9     | 73.6     | 79.8     | 86.1     | 88.5     | 90.9     | 95.4     | 97.0     | 97.5     | 97.6     | 97.6     | 97.7    | 97.9    | 97.5    | 98.0    |
| GE 100                | 41.0                             | 68.9     | 73.6     | 79.8     | 86.1     | 88.5     | 90.9     | 95.4     | 97.0     | 97.5     | 97.6     | 97.6     | 98.0    | 98.2    | 98.3    | 98.8    |
| GE 0                  | 41.0                             | 68.9     | 73.6     | 79.8     | 86.1     | 88.5     | 90.9     | 95.4     | 97.0     | 97.6     | 97.8     | 97.9     | 98.2    | 98.5    | 98.7    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 890

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

**PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS**

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0300-0500

| CEILING<br>IN<br>FEET |       | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |      |  |
|-----------------------|-------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|------|--|
|                       |       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |      |  |
| NO CEIL               | 1     | 15.6                             | 22.6     | 25.3     | 28.3     | 30.7     | 32.0     | 32.4     | 33.1     | 33.5     | 33.9     | 34.0     | 34.1    | 34.3    | 34.5    | 34.5    | 34.9  |      |  |
| GE                    | 20000 | 19.3                             | 29.9     | 33.0     | 36.2     | 39.3     | 41.0     | 42.0     | 43.2     | 43.6     | 43.9     | 44.1     | 44.2    | 44.4    | 44.8    | 44.8    | 45.2  |      |  |
| GE                    | 18000 | 19.3                             | 29.9     | 33.0     | 36.2     | 39.3     | 41.0     | 42.0     | 43.2     | 43.6     | 43.9     | 44.1     | 44.2    | 44.4    | 44.8    | 44.8    | 45.2  |      |  |
| GE                    | 16000 | 19.3                             | 29.9     | 33.0     | 36.2     | 39.3     | 41.0     | 42.0     | 43.2     | 43.6     | 43.9     | 44.1     | 44.2    | 44.4    | 44.8    | 44.8    | 45.2  |      |  |
| GE                    | 14000 | 19.5                             | 30.2     | 33.2     | 36.5     | 39.7     | 41.4     | 42.4     | 43.5     | 43.9     | 44.3     | 44.4     | 44.5    | 44.7    | 45.2    | 45.2    | 45.5  |      |  |
| GE                    | 12000 | 19.7                             | 30.9     | 34.4     | 37.3     | 40.5     | 42.2     | 43.4     | 44.5     | 45.0     | 45.3     | 45.4     | 45.5    | 45.7    | 46.2    | 46.2    | 46.5  |      |  |
| GE                    | 10000 | 20.7                             | 32.5     | 35.5     | 39.0     | 42.2     | 43.9     | 45.2     | 46.3     | 46.9     | 47.2     | 47.3     | 47.4    | 47.6    | 48.1    | 48.1    | 48.4  |      |  |
| GE                    | 9000  | 21.0                             | 33.1     | 36.1     | 39.8     | 42.9     | 44.7     | 46.0     | 47.1     | 47.6     | 48.0     | 48.1     | 48.2    | 48.4    | 48.9    | 48.9    | 49.2  |      |  |
| GE                    | 8000  | 21.0                             | 33.2     | 36.3     | 40.0     | 43.2     | 45.0     | 46.2     | 47.3     | 47.9     | 48.2     | 48.3     | 48.4    | 48.7    | 49.1    | 49.1    | 49.4  |      |  |
| GE                    | 7000  | 21.3                             | 33.6     | 36.9     | 40.6     | 43.8     | 45.6     | 46.9     | 48.0     | 48.5     | 48.9     | 49.0     | 49.1    | 49.3    | 49.8    | 49.8    | 50.1  |      |  |
| GE                    | 6000  | 22.3                             | 35.0     | 38.2     | 41.9     | 45.2     | 47.1     | 48.3     | 49.6     | 50.2     | 50.6     | 50.8     | 50.9    | 51.1    | 51.6    | 51.6    | 51.9  |      |  |
| GE                    | 5000  | 23.1                             | 36.9     | 40.4     | 44.2     | 47.9     | 49.9     | 51.8     | 53.1     | 53.9     | 54.3     | 54.5     | 54.6    | 54.8    | 55.4    | 55.4    | 55.9  |      |  |
| GE                    | 4500  | 23.7                             | 37.8     | 41.4     | 45.6     | 49.4     | 51.5     | 53.4     | 55.0     | 55.8     | 56.2     | 56.4     | 56.5    | 56.7    | 57.3    | 57.3    | 57.8  |      |  |
| GE                    | 4000  | 24.0                             | 38.3     | 42.2     | 46.5     | 50.8     | 52.8     | 54.8     | 56.7     | 57.7     | 58.2     | 58.4     | 58.5    | 58.7    | 59.3    | 59.3    | 60.0  |      |  |
| GE                    | 3500  | 24.2                             | 39.0     | 42.3     | 47.3     | 51.6     | 53.6     | 55.6     | 57.5     | 58.7     | 59.2     | 59.5     | 59.6    | 59.9    | 60.4    | 60.4    | 61.1  |      |  |
| GE                    | 3000  | 25.4                             | 41.6     | 46.0     | 50.6     | 54.8     | 57.0     | 59.1     | 61.2     | 62.7     | 63.1     | 63.5     | 63.6    | 63.8    | 64.3    | 64.3    | 65.0  |      |  |
| GE                    | 2500  | 25.9                             | 42.6     | 47.1     | 51.7     | 56.1     | 58.2     | 60.3     | 62.4     | 63.9     | 64.3     | 64.7     | 64.8    | 65.1    | 65.7    | 65.7    | 66.4  |      |  |
| GE                    | 2100  | 27.2                             | 46.0     | 50.8     | 55.7     | 60.1     | 62.4     | 64.7     | 66.8     | 68.3     | 68.7     | 69.1     | 69.2    | 69.5    | 70.1    | 70.1    | 70.7  |      |  |
| GE                    | 1800  | 28.3                             | 48.4     | 53.5     | 58.5     | 63.1     | 65.5     | 67.7     | 69.8     | 71.3     | 71.7     | 72.1     | 72.2    | 72.5    | 73.1    | 73.1    | 73.8  |      |  |
| GE                    | 1500  | 30.5                             | 51.6     | 56.6     | 61.9     | 66.5     | 68.9     | 71.2     | 73.3     | 74.9     | 75.4     | 75.8     | 75.9    | 76.2    | 76.8    | 76.8    | 77.5  |      |  |
| GE                    | 1200  | 31.6                             | 54.1     | 59.3     | 64.7     | 69.7     | 72.4     | 74.8     | 76.9     | 78.5     | 79.0     | 79.4     | 79.5    | 79.9    | 80.5    | 80.5    | 81.2  |      |  |
| GE                    | 1000  | 32.2                             | 56.2     | 61.5     | 67.0     | 72.2     | 74.9     | 77.2     | 79.4     | 80.9     | 81.5     | 81.8     | 82.0    | 82.4    | 83.0    | 83.0    | 83.6  |      |  |
| GE                    | 900   | 32.2                             | 56.7     | 62.3     | 67.9     | 73.1     | 75.9     | 78.5     | 80.7     | 82.3     | 82.8     | 83.2     | 83.3    | 83.7    | 84.3    | 84.3    | 85.0  |      |  |
| GE                    | 800   | 32.4                             | 57.3     | 63.0     | 68.7     | 74.1     | 76.8     | 79.4     | 81.8     | 83.6     | 84.2     | 84.5     | 84.6    | 85.1    | 85.7    | 85.7    | 86.3  |      |  |
| GE                    | 700   | 32.6                             | 58.2     | 64.0     | 69.8     | 75.2     | 78.0     | 80.8     | 83.3     | 85.1     | 85.7     | 86.0     | 86.1    | 86.5    | 87.1    | 87.1    | 87.8  |      |  |
| GE                    | 600   | 32.8                             | 58.5     | 64.7     | 70.9     | 76.3     | 79.3     | 82.2     | 84.8     | 86.5     | 87.1     | 87.4     | 87.6    | 88.0    | 88.6    | 88.6    | 89.2  |      |  |
| GE                    | 500   | 32.8                             | 59.1     | 65.4     | 71.7     | 77.2     | 80.4     | 83.3     | 86.0     | 87.8     | 88.3     | 88.7     | 88.8    | 89.2    | 89.8    | 89.8    | 89.8  | 90.5 |  |
| GE                    | 400   | 32.8                             | 59.6     | 66.0     | 72.6     | 78.3     | 81.6     | 84.6     | 87.6     | 89.3     | 90.0     | 90.4     | 90.5    | 91.5    | 91.5    | 92.2    |       |      |  |
| GE                    | 300   | 33.0                             | 60.1     | 66.8     | 73.9     | 79.0     | 83.3     | 86.9     | 90.4     | 92.2     | 92.8     | 93.2     | 93.3    | 93.7    | 94.3    | 94.3    | 95.0  |      |  |
| GE                    | 200   | 33.0                             | 60.1     | 66.9     | 74.1     | 80.7     | 84.0     | 87.8     | 91.6     | 93.5     | 94.0     | 94.6     | 94.7    | 95.2    | 95.7    | 95.7    | 96.4  |      |  |
| GE                    | 100   | 33.0                             | 60.1     | 66.9     | 74.1     | 80.7     | 84.1     | 88.0     | 92.3     | 94.2     | 95.5     | 95.9     | 96.0    | 96.4    | 97.0    | 97.0    | 97.6  |      |  |
| GE                    | 0     | 33.0                             | 60.1     | 66.9     | 74.1     | 80.7     | 84.1     | 88.0     | 92.3     | 94.2     | 95.5     | 96.0     | 96.4    | 97.0    | 97.0    | 97.6    | 100.0 |      |  |

TOTAL NUMBER OF OBSERVATIONS: 892

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |       |      |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|-------|------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |       |      |
| NO CEIL               | 13.3                             | 20.1     | 21.2     | 23.7     | 25.1     | 25.9     | 26.8     | 28.4     | 28.8     | 29.2     | 29.5     | 29.5    | 29.5    | 29.5    | 29.5    | 29.5 | 29.5  | 29.6 |
| GE 20000              | 17.5                             | 26.9     | 28.7     | 32.2     | 34.4     | 35.5     | 36.8     | 38.5     | 39.0     | 39.3     | 39.8     | 39.9    | 40.0    | 40.0    | 40.0    | 40.0 | 40.0  | 40.1 |
| GE 18000              | 17.7                             | 27.2     | 28.9     | 32.4     | 34.7     | 35.9     | 37.1     | 38.9     | 39.3     | 39.7     | 40.1     | 40.2    | 40.3    | 40.3    | 40.3    | 40.3 | 40.4  | 40.4 |
| GE 16000              | 17.8                             | 27.3     | 29.1     | 32.6     | 35.0     | 36.1     | 37.3     | 39.1     | 39.6     | 39.9     | 40.3     | 40.4    | 40.6    | 40.6    | 40.6    | 40.6 | 40.7  | 40.7 |
| GE 14000              | 18.4                             | 28.2     | 30.1     | 33.6     | 36.1     | 37.2     | 38.4     | 40.2     | 40.7     | 41.1     | 41.6     | 41.7    | 41.8    | 41.8    | 41.8    | 41.8 | 41.9  | 41.9 |
| GE 12000              | 19.1                             | 29.4     | 31.3     | 35.2     | 37.7     | 38.8     | 40.0     | 41.9     | 42.3     | 42.8     | 43.4     | 43.5    | 43.6    | 43.6    | 43.6    | 43.6 | 43.7  | 43.7 |
| GE 10000              | 20.2                             | 31.7     | 33.7     | 37.9     | 40.9     | 42.0     | 43.4     | 45.3     | 45.7     | 46.1     | 46.7     | 46.8    | 46.9    | 46.9    | 46.9    | 46.9 | 46.9  | 47.0 |
| GE 9000               | 20.4                             | 32.2     | 34.3     | 38.5     | 41.6     | 42.7     | 44.0     | 45.9     | 46.4     | 46.9     | 47.5     | 47.6    | 47.7    | 47.7    | 47.7    | 47.7 | 47.7  | 47.8 |
| GE 8000               | 20.4                             | 32.5     | 34.6     | 39.0     | 42.0     | 43.1     | 44.5     | 46.4     | 46.8     | 47.4     | 47.9     | 48.0    | 48.2    | 48.2    | 48.2    | 48.2 | 48.3  | 48.3 |
| GE 7000               | 20.6                             | 33.2     | 35.3     | 39.7     | 42.7     | 43.8     | 45.1     | 47.0     | 47.5     | 48.0     | 48.6     | 48.7    | 48.8    | 48.8    | 48.8    | 48.8 | 48.9  | 48.9 |
| GE 6000               | 21.1                             | 34.0     | 36.1     | 40.8     | 43.8     | 45.0     | 46.4     | 48.5     | 48.9     | 49.5     | 50.1     | 50.2    | 50.3    | 50.3    | 50.3    | 50.3 | 50.4  | 50.4 |
| GE 5000               | 22.7                             | 36.2     | 38.7     | 43.6     | 46.8     | 48.0     | 49.7     | 52.3     | 52.8     | 53.4     | 54.1     | 54.3    | 54.4    | 54.5    | 54.5    | 54.5 | 54.6  | 54.6 |
| GE 4500               | 23.4                             | 38.1     | 40.8     | 45.7     | 49.2     | 50.4     | 52.1     | 54.7     | 55.4     | 56.1     | 56.8     | 57.0    | 57.4    | 57.4    | 57.4    | 57.4 | 57.7  | 57.7 |
| GE 4000               | 23.9                             | 39.3     | 42.0     | 47.4     | 50.9     | 52.4     | 54.3     | 57.4     | 58.2     | 58.9     | 59.6     | 59.8    | 60.2    | 60.2    | 60.2    | 60.2 | 60.4  | 60.4 |
| GE 3500               | 24.1                             | 40.4     | 43.2     | 48.6     | 52.3     | 53.7     | 55.8     | 58.9     | 60.0     | 60.7     | 61.3     | 61.6    | 61.7    | 62.0    | 62.0    | 62.0 | 62.3  | 62.3 |
| GE 3000               | 25.4                             | 42.3     | 45.1     | 50.5     | 54.3     | 55.9     | 58.0     | 61.1     | 62.2     | 62.9     | 67.7     | 63.9    | 64.0    | 64.4    | 64.4    | 64.4 | 64.7  | 64.7 |
| GE 2500               | 26.5                             | 43.9     | 46.7     | 52.2     | 56.3     | 57.9     | 60.0     | 63.4     | 64.6     | 65.3     | 66.0     | 66.4    | 66.6    | 66.9    | 66.9    | 66.9 | 67.3  | 67.3 |
| GE 2000               | 27.8                             | 46.3     | 49.2     | 54.7     | 59.3     | 60.9     | 63.0     | 66.4     | 67.6     | 68.3     | 69.1     | 69.4    | 69.6    | 70.1    | 70.1    | 70.1 | 70.4  | 70.4 |
| GE 1800               | 28.8                             | 48.7     | 51.8     | 57.4     | 62.0     | 63.6     | 65.7     | 69.1     | 70.3     | 71.1     | 71.8     | 72.2    | 72.4    | 72.8    | 72.8    | 72.8 | 73.2  | 73.2 |
| GE 1500               | 30.4                             | 51.2     | 54.5     | 60.1     | 64.7     | 66.3     | 68.4     | 71.7     | 73.0     | 73.7     | 74.5     | 74.9    | 75.2    | 75.6    | 75.6    | 75.6 | 76.0  | 76.0 |
| GE 1200               | 32.1                             | 54.0     | 57.7     | 63.5     | 68.2     | 69.7     | 72.0     | 75.3     | 76.5     | 77.3     | 78.1     | 78.4    | 78.8    | 79.2    | 79.2    | 79.2 | 79.6  | 79.6 |
| GE 1000               | 32.5                             | 55.1     | 58.9     | 64.9     | 70.1     | 71.6     | 73.9     | 77.2     | 78.4     | 79.2     | 80.1     | 80.4    | 80.8    | 81.2    | 81.2    | 81.2 | 81.6  | 81.6 |
| GE 900                | 32.8                             | 56.0     | 60.1     | 66.3     | 71.0     | 73.5     | 75.8     | 79.1     | 80.3     | 81.1     | 82.0     | 82.3    | 83.1    | 83.5    | 83.5    | 83.5 | 83.5  | 83.5 |
| GE 800                | 33.3                             | 57.1     | 61.3     | 67.7     | 73.3     | 75.0     | 77.2     | 80.7     | 81.9     | 82.7     | 83.6     | 83.9    | 84.2    | 84.7    | 84.7    | 84.7 | 85.0  | 85.0 |
| GE 700                | 33.5                             | 57.9     | 62.2     | 68.9     | 75.0     | 76.6     | 79.0     | 82.6     | 83.8     | 84.6     | 85.5     | 85.8    | 86.1    | 86.6    | 86.6    | 86.6 | 86.9  | 86.9 |
| GE 600                | 33.7                             | 58.5     | 63.5     | 70.5     | 76.9     | 76.8     | 81.6     | 85.1     | 86.5     | 87.3     | 88.2     | 88.5    | 89.4    | 89.4    | 89.4    | 89.4 | 89.7  | 89.7 |
| GE 500                | 33.9                             | 59.0     | 63.9     | 71.2     | 78.1     | 80.1     | 82.9     | 86.5     | 87.8     | 88.6     | 89.5     | 89.8    | 90.3    | 90.7    | 90.7    | 90.7 | 91.1  | 91.1 |
| GE 400                | 33.9                             | 59.2     | 64.1     | 71.5     | 78.7     | 81.0     | 83.9     | 87.7     | 89.2     | 90.2     | 91.2     | 91.5    | 92.0    | 92.4    | 92.4    | 92.4 | 92.7  | 92.7 |
| GE 300                | 33.9                             | 59.4     | 64.4     | 71.7     | 79.2     | 81.8     | 85.0     | 89.6     | 91.2     | 92.2     | 93.2     | 93.5    | 94.0    | 94.4    | 94.4    | 94.4 | 94.7  | 94.7 |
| GE 200                | 33.9                             | 59.4     | 64.4     | 71.7     | 79.4     | 82.0     | 85.5     | 90.3     | 92.0     | 93.4     | 94.4     | 94.7    | 95.2    | 95.6    | 95.6    | 95.6 | 96.1  | 96.1 |
| GE 100                | 33.9                             | 59.4     | 64.4     | 71.7     | 79.4     | 82.0     | 85.7     | 90.6     | 92.4     | 94.2     | 95.4     | 96.0    | 96.8    | 97.2    | 97.3    | 97.3 | 98.1  | 98.1 |
| GE                    | 33.9                             | 59.4     | 64.4     | 71.7     | 79.4     | 82.1     | 85.8     | 90.7     | 92.5     | 94.3     | 95.6     | 96.2    | 97.0    | 97.4    | 97.7    | 97.7 | 100.0 |      |

TOTAL NUMBER OF OBSERVATIONS: 895

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |
| NO CEIL               | 14.4                             | 20.2     | 20.9     | 21.9     | 22.4     | 22.9     | 23.8     | 24.0     | 24.2     | 24.3     | 24.4     | 24.4     | 24.4    | 24.4    | 24.4    | 24.4    | 24.5  |  |
| GE 20000              | 23.9                             | 31.9     | 33.0     | 34.7     | 36.0     | 36.6     | 37.7     | 38.0     | 38.3     | 38.4     | 38.5     | 38.6     | 38.6    | 38.6    | 38.6    | 38.6    | 38.8  |  |
| GE 18000              | 24.0                             | 32.1     | 33.2     | 34.9     | 36.2     | 36.8     | 37.9     | 38.3     | 38.5     | 38.6     | 38.6     | 38.7     | 38.8    | 38.8    | 38.8    | 38.8    | 39.0  |  |
| GE 16000              | 24.0                             | 32.1     | 33.2     | 34.9     | 36.2     | 36.8     | 37.9     | 38.3     | 38.5     | 38.6     | 38.6     | 38.7     | 38.8    | 38.8    | 38.8    | 38.8    | 39.0  |  |
| GE 14000              | 24.6                             | 33.0     | 34.1     | 35.9     | 37.4     | 37.9     | 39.0     | 39.4     | 39.6     | 39.7     | 39.7     | 39.8     | 39.9    | 39.9    | 39.9    | 39.9    | 40.2  |  |
| GE 12000              | 25.8                             | 34.5     | 35.7     | 37.5     | 38.9     | 39.5     | 40.6     | 40.9     | 41.2     | 41.3     | 41.4     | 41.5     | 41.5    | 41.5    | 41.5    | 41.7    | 41.7  |  |
| GE 10000              | 27.6                             | 36.7     | 37.9     | 40.0     | 41.7     | 42.3     | 43.5     | 43.8     | 44.1     | 44.2     | 44.2     | 44.3     | 44.4    | 44.4    | 44.4    | 44.4    | 44.6  |  |
| GE 9000               | 28.5                             | 38.3     | 39.6     | 41.9     | 43.7     | 44.3     | 45.6     | 46.0     | 46.2     | 46.3     | 46.4     | 46.5     | 46.6    | 46.6    | 46.6    | 46.6    | 46.9  |  |
| GE 8000               | 28.7                             | 38.8     | 40.2     | 42.6     | 44.4     | 45.0     | 46.4     | 46.8     | 47.0     | 47.1     | 47.2     | 47.3     | 47.4    | 47.4    | 47.4    | 47.4    | 47.7  |  |
| GE 7000               | 29.1                             | 39.1     | 40.5     | 43.0     | 44.7     | 45.3     | 46.8     | 47.1     | 47.3     | 47.4     | 47.5     | 47.7     | 47.8    | 47.8    | 47.8    | 47.8    | 48.0  |  |
| GE 6000               | 29.5                             | 39.7     | 41.1     | 44.0     | 46.0     | 46.5     | 48.0     | 48.3     | 48.5     | 48.7     | 48.8     | 48.9     | 49.0    | 49.0    | 49.0    | 49.0    | 49.2  |  |
| GE 5000               | 31.5                             | 43.2     | 44.9     | 47.9     | 50.6     | 51.1     | 52.6     | 52.9     | 53.1     | 53.2     | 53.4     | 53.5     | 53.6    | 53.6    | 53.6    | 53.6    | 53.8  |  |
| GE 4500               | 33.8                             | 46.4     | 48.2     | 51.3     | 54.1     | 54.7     | 56.3     | 56.6     | 56.8     | 57.0     | 57.2     | 57.3     | 57.4    | 57.4    | 57.4    | 57.4    | 57.6  |  |
| GE 4000               | 35.8                             | 49.1     | 50.9     | 54.0     | 57.2     | 57.7     | 59.3     | 59.7     | 60.0     | 60.2     | 60.3     | 60.4     | 60.5    | 60.5    | 60.5    | 60.5    | 60.7  |  |
| GE 3500               | 36.7                             | 50.1     | 51.9     | 55.0     | 58.2     | 58.7     | 60.3     | 60.7     | 61.0     | 61.2     | 61.3     | 61.4     | 61.5    | 61.5    | 61.5    | 61.5    | 61.7  |  |
| GE 3000               | 39.1                             | 52.0     | 53.9     | 57.0     | 60.2     | 60.7     | 62.3     | 62.9     | 63.1     | 63.3     | 63.4     | 63.5     | 63.6    | 63.6    | 63.6    | 63.6    | 63.9  |  |
| GE 2500               | 40.8                             | 55.4     | 57.4     | 60.7     | 63.9     | 64.4     | 66.0     | 66.6     | 66.8     | 67.0     | 67.1     | 67.2     | 67.3    | 67.3    | 67.3    | 67.3    | 67.6  |  |
| GE 2000               | 44.2                             | 59.8     | 62.0     | 65.5     | 68.7     | 69.2     | 70.8     | 71.4     | 71.6     | 71.8     | 71.9     | 72.0     | 72.1    | 72.1    | 72.1    | 72.1    | 72.4  |  |
| GE 1800               | 45.7                             | 62.0     | 64.2     | 67.8     | 70.9     | 71.6     | 73.2     | 73.7     | 73.9     | 74.2     | 74.3     | 74.4     | 74.5    | 74.5    | 74.5    | 74.5    | 74.7  |  |
| GE 1500               | 49.2                             | 66.8     | 69.2     | 73.0     | 76.2     | 76.8     | 78.4     | 79.0     | 79.2     | 79.4     | 79.5     | 79.6     | 79.8    | 79.8    | 79.8    | 79.8    | 80.0  |  |
| GE 1200               | 51.6                             | 71.0     | 74.3     | 78.4     | 81.8     | 82.4     | 84.0     | 84.7     | 84.9     | 85.1     | 85.2     | 85.3     | 85.5    | 85.5    | 85.5    | 85.5    | 85.7  |  |
| GE 1000               | 51.7                             | 72.5     | 75.8     | 80.1     | 83.8     | 84.6     | 86.1     | 86.8     | 87.0     | 87.2     | 87.4     | 87.5     | 87.6    | 87.6    | 87.6    | 87.6    | 87.8  |  |
| GE 900                | 51.8                             | 73.2     | 76.5     | 81.1     | 85.1     | 85.9     | 87.5     | 88.1     | 88.4     | 88.6     | 88.7     | 88.8     | 88.9    | 88.9    | 88.9    | 88.9    | 89.1  |  |
| GE 800                | 51.9                             | 74.2     | 77.6     | 82.3     | 86.7     | 97.7     | 89.4     | 90.0     | 90.3     | 90.5     | 90.6     | 90.7     | 90.8    | 90.8    | 90.8    | 90.8    | 91.1  |  |
| GE 700                | 52.2                             | 74.8     | 78.5     | 83.2     | 87.9     | 89.3     | 91.2     | 91.8     | 92.1     | 92.3     | 92.4     | 92.5     | 92.6    | 92.6    | 92.6    | 92.6    | 92.8  |  |
| GE 600                | 52.2                             | 75.4     | 79.3     | 84.0     | 88.9     | 90.4     | 92.5     | 93.3     | 93.5     | 93.7     | 93.8     | 94.0     | 94.1    | 94.1    | 94.1    | 94.1    | 94.3  |  |
| GE 500                | 52.3                             | 75.6     | 79.6     | 84.8     | 89.9     | 91.3     | 93.4     | 94.4     | 94.7     | 95.0     | 95.1     | 95.2     | 95.3    | 95.3    | 95.3    | 95.3    | 95.5  |  |
| GE 400                | 52.3                             | 75.7     | 79.8     | 85.2     | 90.7     | 92.2     | 94.3     | 95.3     | 95.7     | 96.0     | 96.2     | 96.3     | 96.4    | 96.4    | 96.4    | 96.4    | 96.6  |  |
| GE 300                | 52.3                             | 75.8     | 79.9     | 85.3     | 91.4     | 93.2     | 95.3     | 96.9     | 97.9     | 98.2     | 98.4     | 98.8     | 98.9    | 98.9    | 98.9    | 98.9    | 99.1  |  |
| GE 200                | 52.3                             | 75.8     | 79.9     | 85.3     | 91.4     | 93.2     | 95.3     | 96.9     | 97.9     | 98.3     | 98.5     | 99.1     | 99.2    | 99.2    | 99.2    | 99.2    | 99.4  |  |
| GE 100                | 52.3                             | 75.8     | 79.9     | 85.3     | 91.4     | 93.2     | 95.3     | 96.9     | 97.9     | 98.3     | 98.5     | 99.1     | 99.2    | 99.2    | 99.2    | 99.2    | 99.4  |  |
| GE 0                  | 52.3                             | 75.8     | 79.9     | 85.3     | 91.4     | 93.2     | 95.3     | 96.9     | 97.9     | 98.3     | 98.5     | 99.1     | 99.3    | 99.3    | 99.3    | 99.4    | 100.0 |  |

TOTAL NUMBER OF OBSERVATIONS: 894

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 1200-1400

| CEILING  | VISIBILITY IN HUNDREDS OF METERS |           |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |
|----------|----------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|
|          | IN<br>FEET                       | 67<br>160 | GE<br>90 | GE<br>30 | GE<br>60 | GE<br>44 | GE<br>40 | GE<br>32 | GE<br>24 | GF<br>20 | GL<br>16 | GE<br>12 | GL<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GF<br>0 |  |
| NO CEIL  | 17.2                             | 21.8      | 27.2     | 22.8     | 23.1     | 23.3     | 23.3     | 23.3     | 23.3     | 23.3     | 23.3     | 23.3     | 23.3     | 23.3    | 23.3    | 23.3    | 23.3    |  |
| UF 20000 | 27.7                             | 34.4      | 34.9     | 35.6     | 36.1     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3    | 36.3    | 36.3    | 36.3    |  |
| GE 18000 | 27.7                             | 34.4      | 34.9     | 35.6     | 36.1     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3    | 36.3    | 36.3    | 36.3    |  |
| GE 16000 | 27.7                             | 34.4      | 34.9     | 35.6     | 36.1     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3    | 36.3    | 36.3    | 36.3    |  |
| GF 14000 | 28.2                             | 34.9      | 35.5     | 36.2     | 36.6     | 36.9     | 36.9     | 36.9     | 36.9     | 36.9     | 36.9     | 36.9     | 36.9     | 36.9    | 36.9    | 36.9    | 36.9    |  |
| GF 12000 | 29.2                             | 36.3      | 37.0     | 37.7     | 38.1     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3    | 38.3    | 38.3    | 38.3    |  |
| GE 10000 | 30.7                             | 38.4      | 39.2     | 40.4     | 40.8     | 41.0     | 41.0     | 41.0     | 41.0     | 41.0     | 41.0     | 41.0     | 41.0     | 41.0    | 41.0    | 41.0    | 41.0    |  |
| GE 9000  | 31.8                             | 40.6      | 41.4     | 42.5     | 43.1     | 43.3     | 43.4     | 43.4     | 43.4     | 43.4     | 43.4     | 43.4     | 43.4     | 43.4    | 43.4    | 43.4    | 43.4    |  |
| GE 8000  | 31.9                             | 40.9      | 41.7     | 42.8     | 43.4     | 43.6     | 43.7     | 43.7     | 43.7     | 43.7     | 43.7     | 43.7     | 43.7     | 43.7    | 43.7    | 43.7    | 43.7    |  |
| GE 7000  | 32.4                             | 41.6      | 42.4     | 43.5     | 44.1     | 44.3     | 44.4     | 44.4     | 44.4     | 44.4     | 44.4     | 44.4     | 44.4     | 44.4    | 44.4    | 44.4    | 44.4    |  |
| GE 6000  | 33.6                             | 43.2      | 44.1     | 45.3     | 45.9     | 46.1     | 46.3     | 46.3     | 46.3     | 46.3     | 46.3     | 46.3     | 46.3     | 46.3    | 46.3    | 46.3    | 46.3    |  |
| GE 5000  | 38.8                             | 50.2      | 51.3     | 52.6     | 53.4     | 53.7     | 53.7     | 53.7     | 53.7     | 53.7     | 53.7     | 53.7     | 53.7     | 53.7    | 53.7    | 53.7    | 53.7    |  |
| GE 4500  | 44.0                             | 56.5      | 57.6     | 59.1     | 59.6     | 59.9     | 60.1     | 60.1     | 60.1     | 60.1     | 60.1     | 60.1     | 60.1     | 60.1    | 60.1    | 60.1    | 60.1    |  |
| GE 4000  | 48.0                             | 61.4      | 62.7     | 64.3     | 64.9     | 65.2     | 65.4     | 65.4     | 65.4     | 65.4     | 65.4     | 65.4     | 65.4     | 65.4    | 65.4    | 65.4    | 65.4    |  |
| GE 3500  | 51.3                             | 63.9      | 65.2     | 66.7     | 67.4     | 67.6     | 67.9     | 67.9     | 67.9     | 67.9     | 67.9     | 67.9     | 67.9     | 67.9    | 67.9    | 67.9    | 67.9    |  |
| GF 3000  | 54.1                             | 68.7      | 69.9     | 71.7     | 72.4     | 72.6     | 72.8     | 72.8     | 72.8     | 72.8     | 72.8     | 72.8     | 72.8     | 72.8    | 72.8    | 72.8    | 72.8    |  |
| GE 2500  | 57.6                             | 73.3      | 74.9     | 76.9     | 77.7     | 77.9     | 78.1     | 78.1     | 78.1     | 78.1     | 78.1     | 78.1     | 78.1     | 78.1    | 78.1    | 78.1    | 78.1    |  |
| GE 2000  | 62.1                             | 79.1      | 80.7     | 83.1     | 83.9     | 84.2     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4     | 84.4    | 84.4    | 84.4    | 84.4    |  |
| GE 1800  | 63.2                             | 80.7      | 82.6     | 85.2     | 86.0     | 86.4     | 86.6     | 86.6     | 86.6     | 86.6     | 86.6     | 86.6     | 86.6     | 86.6    | 86.6    | 86.6    | 86.6    |  |
| GE 1500  | 64.8                             | 83.2      | 85.3     | 88.0     | 88.8     | 89.2     | 89.4     | 89.4     | 89.4     | 89.4     | 89.4     | 89.4     | 89.4     | 89.4    | 89.4    | 89.4    | 89.4    |  |
| GE 1200  | 65.8                             | 84.7      | 87.3     | 90.0     | 90.9     | 91.2     | 91.7     | 91.7     | 91.7     | 91.7     | 91.7     | 91.7     | 91.7     | 91.7    | 91.7    | 91.7    | 91.7    |  |
| GF 1000  | 66.2                             | 86.2      | 89.0     | 91.7     | 92.8     | 93.1     | 93.8     | 93.8     | 93.8     | 93.8     | 93.8     | 93.8     | 93.8     | 93.8    | 93.8    | 93.8    | 93.8    |  |
| GE 900   | 66.3                             | 86.4      | 89.1     | 91.9     | 93.2     | 93.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6    | 94.6    | 94.6    | 94.6    |  |
| GE 800   | 66.3                             | 86.6      | 89.4     | 92.6     | 93.9     | 94.3     | 95.4     | 95.6     | 95.6     | 95.6     | 95.6     | 95.6     | 95.6     | 95.6    | 95.6    | 95.6    | 95.6    |  |
| GE 700   | 66.3                             | 86.9      | 90.0     | 93.3     | 94.8     | 95.3     | 96.5     | 96.7     | 96.7     | 96.7     | 96.7     | 96.7     | 96.7     | 96.7    | 96.7    | 96.7    | 96.7    |  |
| GE 600   | 66.3                             | 87.0      | 90.1     | 93.5     | 95.0     | 95.6     | 97.0     | 97.3     | 97.4     | 97.4     | 97.4     | 97.4     | 97.4     | 97.4    | 97.4    | 97.4    | 97.4    |  |
| GE 500   | 66.3                             | 87.0      | 90.1     | 93.8     | 95.6     | 96.2     | 97.5     | 97.9     | 98.0     | 98.0     | 98.0     | 98.0     | 98.0     | 98.0    | 98.0    | 98.0    | 98.0    |  |
| GE 400   | 66.3                             | 87.0      | 90.1     | 94.0     | 96.1     | 96.6     | 98.2     | 98.6     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8     | 98.8    | 98.8    | 98.8    | 98.8    |  |
| GE 300   | 66.3                             | 87.4      | 90.4     | 94.6     | 96.6     | 97.2     | 99.0     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    |  |
| GE 200   | 66.3                             | 87.4      | 90.4     | 94.6     | 96.7     | 97.3     | 99.1     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |  |
| GE 100   | 66.3                             | 87.4      | 90.4     | 94.6     | 96.7     | 97.3     | 99.1     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |  |
| GE 0     | 66.3                             | 87.4      | 90.4     | 94.6     | 96.7     | 97.3     | 99.1     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |  |

TOTAL NUMBER OF OBSERVATIONS: 887

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 1500-1700

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GT<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 19.7                             | 23.6     | 24.2     | 24.6     | 24.6     | 15.0     | 25.0     | 25.0     | 25.0     | 25.0     | 25.0     | 25.0    | 25.0    | 25.0    | 25.0    |
| GE 20000              | 37.0                             | 39.0     | 39.9     | 40.4     | 40.4     | 41.1     | 41.2     | 41.2     | 41.2     | 41.2     | 41.2     | 41.2    | 41.2    | 41.2    | 41.2    |
| GE 16000              | 32.4                             | 39.3     | 40.2     | 40.8     | 41.1     | 41.4     | 41.5     | 41.5     | 41.5     | 41.5     | 41.5     | 41.5    | 41.5    | 41.5    | 41.5    |
| GE 16000              | 32.4                             | 39.4     | 40.3     | 40.9     | 41.2     | 41.5     | 41.7     | 41.7     | 41.7     | 41.7     | 41.7     | 41.7    | 41.7    | 41.7    | 41.7    |
| GE 14000              | 32.9                             | 40.1     | 41.0     | 41.9     | 42.2     | 42.3     | 42.3     | 42.3     | 42.3     | 42.3     | 42.3     | 42.3    | 42.3    | 42.3    | 42.3    |
| GE 12000              | 34.3                             | 42.0     | 42.9     | 43.4     | 43.9     | 44.1     | 44.2     | 44.2     | 44.2     | 44.2     | 44.2     | 44.2    | 44.2    | 44.2    | 44.2    |
| GE 10000              | 35.7                             | 43.9     | 44.8     | 45.5     | 45.8     | 46.1     | 46.2     | 46.2     | 46.2     | 46.2     | 46.2     | 46.2    | 46.2    | 46.2    | 46.2    |
| GE 9000               | 36.6                             | 45.0     | 45.9     | 46.9     | 47.3     | 47.6     | 47.7     | 47.7     | 47.7     | 47.7     | 47.7     | 47.7    | 47.7    | 47.7    | 47.7    |
| GE 8000               | 36.6                             | 45.1     | 46.0     | 47.0     | 47.4     | 47.7     | 47.8     | 47.8     | 47.8     | 47.8     | 47.8     | 47.8    | 47.8    | 47.8    | 47.8    |
| GE 7000               | 37.0                             | 46.0     | 46.9     | 47.9     | 48.7     | 48.6     | 48.7     | 48.7     | 48.7     | 48.7     | 48.7     | 48.7    | 48.7    | 48.7    | 48.7    |
| GE 6000               | 38.4                             | 48.5     | 49.4     | 50.5     | 50.8     | 51.2     | 51.3     | 51.3     | 51.3     | 51.3     | 51.3     | 51.3    | 51.3    | 51.3    | 51.3    |
| GE 5000               | 45.4                             | 57.0     | 57.9     | 59.1     | 59.5     | 59.8     | 59.9     | 59.9     | 59.9     | 59.9     | 59.9     | 59.9    | 59.9    | 59.9    | 59.9    |
| GE 4500               | 52.5                             | 65.7     | 66.7     | 68.2     | 68.5     | 69.0     | 69.1     | 69.1     | 69.1     | 69.1     | 69.1     | 69.1    | 69.1    | 69.1    | 69.1    |
| GE 4000               | 55.8                             | 69.3     | 70.3     | 72.1     | 72.5     | 72.9     | 73.0     | 73.0     | 73.0     | 73.0     | 73.0     | 73.0    | 73.0    | 73.0    | 73.0    |
| GE 3500               | 57.1                             | 71.2     | 72.3     | 74.2     | 74.6     | 75.0     | 75.1     | 75.1     | 75.1     | 75.1     | 75.1     | 75.1    | 75.1    | 75.1    | 75.1    |
| GE 3000               | 59.1                             | 73.6     | 74.8     | 76.8     | 77.2     | 77.6     | 77.7     | 77.7     | 77.7     | 77.7     | 77.7     | 77.7    | 77.7    | 77.7    | 77.7    |
| GE 2500               | 62.7                             | 78.4     | 79.6     | 82.0     | 82.5     | 82.8     | 82.9     | 82.9     | 82.9     | 82.9     | 82.9     | 82.9    | 82.9    | 82.9    | 82.9    |
| GE 2000               | 64.9                             | 82.2     | 83.7     | 86.0     | 86.5     | 86.9     | 87.0     | 87.0     | 87.0     | 87.0     | 87.0     | 87.0    | 87.0    | 87.0    | 87.0    |
| GE 1800               | 65.5                             | 83.2     | 84.8     | 87.2     | 87.7     | 88.1     | 88.2     | 88.2     | 88.2     | 88.2     | 88.2     | 88.2    | 88.2    | 88.2    | 88.2    |
| GE 1500               | 66.2                             | 84.3     | 86.2     | 88.8     | 89.7     | 90.0     | 90.0     | 90.0     | 90.0     | 90.0     | 90.0     | 90.0    | 90.0    | 90.0    | 90.0    |
| GE 1200               | 67.5                             | 86.5     | 88.4     | 91.3     | 91.9     | 92.4     | 92.8     | 92.8     | 92.8     | 92.8     | 92.8     | 92.8    | 92.8    | 92.8    | 92.8    |
| GE 1000               | 67.9                             | 87.1     | 89.1     | 92.2     | 93.1     | 93.5     | 94.0     | 94.1     | 94.2     | 94.3     | 94.3     | 94.3    | 94.3    | 94.3    | 94.3    |
| GE 900                | 68.0                             | 87.6     | 89.7     | 92.7     | 93.7     | 94.2     | 94.6     | 94.7     | 94.8     | 95.0     | 95.0     | 95.0    | 95.0    | 95.0    | 95.0    |
| GE 800                | 68.0                             | 87.6     | 90.0     | 93.4     | 94.5     | 95.0     | 95.4     | 95.6     | 95.7     | 95.9     | 95.9     | 95.9    | 95.9    | 95.9    | 95.9    |
| GE 700                | 68.0                             | 88.0     | 90.5     | 94.0     | 95.1     | 95.7     | 96.2     | 96.4     | 96.5     | 96.6     | 96.6     | 96.6    | 96.6    | 96.6    | 96.6    |
| GE 600                | 68.0                             | 88.2     | 90.7     | 96.3     | 95.6     | 96.4     | 96.9     | 97.1     | 97.2     | 97.3     | 97.3     | 97.3    | 97.3    | 97.3    | 97.3    |
| GE 500                | 69.0                             | 88.4     | 90.8     | 94.6     | 96.4     | 97.4     | 98.0     | 98.3     | 98.4     | 98.5     | 98.5     | 98.5    | 98.5    | 98.5    | 98.5    |
| GE 400                | 68.0                             | 88.7     | 91.2     | 95.2     | 96.2     | 97.1     | 98.3     | 99.1     | 99.8     | 99.9     | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 300                | 68.0                             | 88.7     | 91.2     | 95.2     | 97.1     | 98.3     | 99.1     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 200                | 68.0                             | 88.7     | 91.2     | 95.2     | 97.1     | 98.3     | 99.1     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 100                | 68.0                             | 88.7     | 91.2     | 95.2     | 97.1     | 98.3     | 99.1     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 50                 | 68.0                             | 88.7     | 91.2     | 95.2     | 97.1     | 98.3     | 99.1     | 99.8     | 99.9     | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 893

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOXCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 1800-2000

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |         |         |         |         |      |      |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|------|
|                       | GT<br>160                        | GE<br>90 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |      |
| NO CEIL               | 24.4                             | 29.8     | 30.7     | 31.4     | 32.0     | 32.4     | 32.4     | 32.4     | 32.4     | 32.4     | 32.4    | 32.4    | 32.4    | 32.4    | 32.4 | 32.4 |
| GE 2000               | 35.8                             | 46.2     | 47.4     | 48.7     | 49.6     | 50.0     | 50.0     | 50.0     | 50.0     | 50.0     | 50.0    | 50.0    | 50.0    | 50.0    | 50.0 | 50.0 |
| GE 1800               | 36.1                             | 46.5     | 47.8     | 49.0     | 49.9     | 50.3     | 50.3     | 50.3     | 50.3     | 50.3     | 50.3    | 50.3    | 50.3    | 50.3    | 50.3 | 50.3 |
| GE 1600               | 36.3                             | 46.9     | 48.1     | 49.3     | 50.2     | 50.7     | 50.7     | 50.7     | 50.7     | 50.7     | 50.7    | 50.7    | 50.7    | 50.7    | 50.7 | 50.7 |
| GE 1400               | 37.1                             | 47.9     | 49.1     | 50.4     | 51.3     | 51.8     | 51.8     | 51.8     | 51.8     | 51.8     | 51.8    | 51.8    | 51.8    | 51.8    | 51.8 | 51.8 |
| GE 1200               | 38.9                             | 50.3     | 51.6     | 52.9     | 54.0     | 54.5     | 54.5     | 54.5     | 54.5     | 54.5     | 54.5    | 54.5    | 54.5    | 54.5    | 54.5 | 54.5 |
| GF 1000               | 40.2                             | 52.7     | 54.1     | 55.6     | 56.7     | 57.2     | 57.4     | 57.5     | 57.5     | 57.5     | 57.5    | 57.5    | 57.5    | 57.5    | 57.5 | 57.5 |
| GE 900                | 40.5                             | 53.4     | 54.8     | 56.3     | 57.6     | 58.1     | 58.3     | 58.4     | 58.4     | 58.4     | 58.4    | 58.4    | 58.4    | 58.4    | 58.4 | 58.4 |
| GE 800                | 40.8                             | 53.9     | 55.4     | 56.8     | 58.2     | 58.6     | 59.1     | 59.2     | 59.2     | 59.2     | 59.2    | 59.2    | 59.2    | 59.2    | 59.2 | 59.2 |
| GF 700                | 40.8                             | 54.6     | 56.1     | 57.5     | 58.3     | 59.3     | 59.8     | 59.9     | 59.9     | 59.9     | 59.9    | 59.9    | 59.9    | 59.9    | 59.9 | 59.9 |
| GE 600                | 41.6                             | 55.7     | 57.4     | 59.1     | 60.4     | 60.9     | 61.3     | 61.4     | 61.4     | 61.4     | 61.4    | 61.4    | 61.4    | 61.4    | 61.4 | 61.4 |
| GF 500                | 44.1                             | 59.8     | 61.5     | 63.8     | 65.4     | 65.9     | 66.4     | 66.7     | 66.7     | 66.7     | 66.7    | 66.7    | 66.7    | 66.7    | 66.7 | 66.7 |
| GE 450                | 46.3                             | 63.6     | 65.8     | 68.5     | 70.4     | 71.2     | 71.6     | 72.0     | 72.0     | 72.0     | 72.0    | 72.0    | 72.0    | 72.0    | 72.0 | 72.0 |
| GE 400                | 48.4                             | 66.3     | 68.6     | 71.9     | 73.8     | 74.6     | 75.0     | 75.3     | 75.3     | 75.3     | 75.3    | 75.3    | 75.3    | 75.3    | 75.3 | 75.3 |
| GE 350                | 49.6                             | 68.6     | 70.4     | 73.7     | 75.6     | 76.3     | 76.8     | 77.1     | 77.1     | 77.1     | 77.1    | 77.1    | 77.1    | 77.1    | 77.1 | 77.1 |
| GE 300                | 52.0                             | 71.3     | 73.9     | 77.6     | 79.9     | 80.7     | 81.3     | 81.6     | 81.6     | 81.6     | 81.6    | 81.6    | 81.6    | 81.6    | 81.6 | 81.6 |
| GE 250                | 53.4                             | 73.2     | 75.8     | 79.5     | 82.0     | 82.8     | 83.4     | 83.7     | 83.7     | 83.7     | 83.7    | 83.7    | 83.7    | 83.7    | 83.7 | 83.7 |
| GE 200                | 55.0                             | 76.0     | 78.7     | 82.5     | 85.7     | 86.1     | 86.7     | 87.0     | 87.0     | 87.0     | 87.0    | 87.0    | 87.0    | 87.0    | 87.0 | 87.0 |
| GE 1800               | 55.3                             | 76.8     | 79.5     | 83.3     | 86.1     | 86.9     | 87.4     | 87.8     | 87.8     | 87.8     | 87.8    | 87.8    | 87.8    | 87.8    | 87.8 | 87.8 |
| GE 1500               | 56.6                             | 77.6     | 80.3     | 84.4     | 87.2     | 88.1     | 88.7     | 89.0     | 89.0     | 89.0     | 89.0    | 89.0    | 89.0    | 89.0    | 89.0 | 89.0 |
| GE 1200               | 56.3                             | 79.0     | 81.7     | 86.3     | 89.1     | 90.0     | 90.6     | 90.9     | 90.9     | 90.9     | 90.9    | 90.9    | 90.9    | 90.9    | 90.9 | 90.9 |
| GE 1000               | 56.6                             | 80.2     | 83.3     | 86.0     | 90.8     | 91.7     | 92.3     | 92.6     | 92.6     | 92.6     | 92.6    | 92.6    | 92.6    | 92.6    | 92.6 | 92.6 |
| GE 900                | 56.7                             | 80.4     | 83.5     | 86.6     | 91.5     | 92.4     | 92.9     | 93.4     | 93.4     | 93.4     | 93.4    | 93.4    | 93.4    | 93.4    | 93.4 | 93.4 |
| GE 800                | 56.8                             | 80.7     | 84.2     | 89.2     | 92.3     | 93.2     | 93.7     | 94.2     | 94.2     | 94.2     | 94.2    | 94.2    | 94.2    | 94.2    | 94.2 | 94.2 |
| GE 700                | 56.8                             | 80.7     | 84.2     | 89.6     | 92.9     | 93.8     | 94.5     | 95.0     | 95.0     | 95.0     | 95.0    | 95.0    | 95.0    | 95.0    | 95.0 | 95.0 |
| GE 600                | 57.0                             | 81.1     | 84.6     | 90.1     | 93.8     | 95.3     | 96.0     | 96.4     | 96.4     | 96.4     | 96.4    | 96.4    | 96.4    | 96.4    | 96.4 | 96.4 |
| GE 500                | 57.1                             | 81.3     | 85.1     | 90.8     | 94.5     | 96.1     | 96.7     | 97.2     | 97.2     | 97.2     | 97.2    | 97.2    | 97.2    | 97.2    | 97.2 | 97.2 |
| GE 400                | 57.1                             | 81.3     | 85.1     | 91.1     | 95.1     | 96.7     | 97.5     | 98.1     | 98.1     | 98.1     | 98.1    | 98.1    | 98.1    | 98.1    | 98.1 | 98.1 |
| GE 300                | 57.1                             | 81.3     | 85.2     | 91.3     | 95.7     | 97.5     | 98.5     | 99.1     | 99.1     | 99.1     | 99.1    | 99.1    | 99.1    | 99.1    | 99.1 | 99.1 |
| GE 200                | 57.1                             | 81.3     | 85.2     | 91.4     | 96.0     | 97.9     | 99.0     | 99.7     | 99.7     | 99.7     | 99.7    | 99.7    | 99.7    | 99.7    | 99.7 | 99.7 |
| GE 100                | 57.1                             | 81.3     | 85.2     | 91.4     | 96.0     | 97.9     | 99.0     | 99.8     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    | 99.8 | 99.8 |
| GE 0                  | 57.1                             | 81.3     | 85.2     | 91.4     | 96.0     | 97.9     | 99.0     | 99.8     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    | 99.8 | 99.8 |

TOTAL NUMBER OF OBSERVATIONS: 892

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIRILTY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: ROSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 2100-2300

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                       | 24                               | 34   | 46   | 56   | 66   | 76   | 86   | 96   | 106  | 126  | 146  | 166  | 176  | 186  | 196  | 206  | 226  | 246  |
| NO CEIL               | 24.9                             | 34.6 | 36.2 | 37.4 | 38.6 | 39.9 | 40.6 | 40.8 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 |
| GE 20000              | 32.8                             | 45.5 | 47.5 | 49.2 | 50.7 | 52.2 | 52.9 | 53.1 | 53.1 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 |
| GE 18000              | 32.8                             | 45.5 | 47.5 | 49.2 | 50.7 | 52.2 | 52.9 | 53.1 | 53.1 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 |
| GE 16000              | 32.8                             | 45.5 | 47.5 | 49.2 | 50.7 | 52.2 | 52.9 | 53.1 | 53.1 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 | 53.2 |
| GE 14000              | 33.0                             | 46.1 | 48.1 | 49.6 | 51.4 | 52.9 | 52.6 | 53.8 | 53.8 | 53.9 | 53.9 | 53.9 | 53.9 | 53.9 | 53.9 | 53.9 | 53.9 | 53.9 |
| GE 12000              | 33.7                             | 47.3 | 49.5 | 51.2 | 52.9 | 54.4 | 55.0 | 55.3 | 55.3 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 |
| GE 10000              | 34.4                             | 48.7 | 51.0 | 53.1 | 55.1 | 56.7 | 57.5 | 57.7 | 57.7 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 |
| GE 9000               | 34.6                             | 49.0 | 51.5 | 54.1 | 56.2 | 57.7 | 58.5 | 58.9 | 58.9 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 | 59.0 |
| GE 8000               | 34.7                             | 49.3 | 51.8 | 54.4 | 56.4 | 58.0 | 58.8 | 59.1 | 59.1 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 |
| GE 7000               | 35.0                             | 49.8 | 52.3 | 54.9 | 57.1 | 58.6 | 59.4 | 59.8 | 59.8 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9 |
| GE 6000               | 35.5                             | 50.6 | 53.6 | 56.2 | 58.4 | 60.0 | 60.8 | 61.1 | 61.1 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 | 61.2 |
| GE 5000               | 36.2                             | 52.3 | 55.8 | 59.0 | 61.9 | 63.4 | 66.2 | 64.5 | 64.6 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 |
| GE 4500               | 36.8                             | 54.7 | 58.4 | 62.0 | 65.4 | 67.1 | 68.0 | 68.7 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 | 68.8 |
| GE 4000               | 38.2                             | 56.7 | 60.6 | 64.4 | 67.9 | 59.6 | 70.5 | 71.1 | 71.2 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 |
| GE 3500               | 39.3                             | 58.2 | 62.0 | 65.9 | 69.5 | 71.4 | 72.3 | 73.1 | 73.3 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 |
| GE 3000               | 40.9                             | 61.6 | 65.5 | 69.5 | 73.3 | 75.5 | 76.7 | 77.6 | 77.9 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0 |
| GE 2500               | 42.4                             | 65.0 | 69.0 | 73.0 | 76.9 | 79.1 | 80.3 | 81.4 | 81.7 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 |
| GE 2000               | 42.8                             | 66.6 | 70.7 | 75.3 | 79.3 | 81.5 | 82.7 | 83.7 | 84.1 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 |
| GE 1800               | 43.7                             | 67.7 | 72.0 | 76.6 | 80.7 | 82.8 | 84.1 | 85.1 | 85.4 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 |
| GE 1500               | 44.0                             | 68.5 | 72.8 | 77.7 | 81.8 | 84.0 | 85.2 | 86.6 | 86.9 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 |
| GE 1200               | 45.0                             | 70.8 | 75.5 | 80.7 | 84.9 | 87.0 | 88.2 | 89.6 | 90.1 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 |
| GE 1000               | 45.0                             | 71.9 | 76.5 | 81.9 | 86.1 | 88.2 | 89.6 | 91.0 | 91.4 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 |
| GE 900                | 45.0                             | 72.1 | 76.7 | 82.1 | 86.7 | 88.5 | 89.8 | 91.2 | 91.6 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 |
| GE 800                | 45.2                             | 72.4 | 77.1 | 82.5 | 86.8 | 88.9 | 90.3 | 91.9 | 92.3 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 | 92.5 |
| GE 700                | 45.2                             | 73.2 | 78.0 | 83.6 | 88.1 | 90.5 | 91.9 | 93.6 | 94.0 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 |
| GE 600                | 45.3                             | 73.6 | 78.5 | 84.4 | 88.9 | 91.3 | 92.7 | 94.5 | 94.9 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 |
| GE 500                | 45.4                             | 74.1 | 79.2 | 85.3 | 89.9 | 92.4 | 93.8 | 95.6 | 96.0 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 |
| GE 400                | 45.4                             | 74.5 | 79.7 | 86.1 | 91.0 | 93.4 | 94.9 | 96.8 | 97.3 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 |
| GE 300                | 45.4                             | 74.6 | 79.8 | 86.3 | 91.3 | 94.0 | 95.5 | 97.7 | 98.2 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 |
| GE 200                | 45.4                             | 74.6 | 79.9 | 86.6 | 92.0 | 94.8 | 96.4 | 98.9 | 99.3 | 99.7 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 |
| GE 100                | 45.4                             | 74.6 | 79.9 | 86.6 | 92.0 | 94.8 | 96.4 | 98.9 | 99.4 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| GE 01                 | 45.4                             | 74.6 | 79.9 | 86.6 | 92.0 | 94.8 | 96.4 | 98.9 | 99.4 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |

TOTAL NUMBER OF OBSERVATIONS: 985

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GF<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GT<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |
| NO CLIL               | 18.9                             | 25.5     | 26.7     | 28.2     | 29.1     | 29.8     | 30.3     | 30.8     | 30.9     | 31.1     | 31.1     | 31.2    | 31.2    | 31.3    | 31.3    | 31.4  |
| GE 20000              | 27.0                             | 26.6     | 38.1     | 40.1     | 41.6     | 42.4     | 43.0     | 43.7     | 43.9     | 44.0     | 44.1     | 44.1    | 44.2    | 44.3    | 44.3    | 44.5  |
| GE 18000              | 27.1                             | 36.8     | 38.3     | 40.2     | 41.8     | 42.6     | 43.2     | 43.9     | 44.1     | 44.2     | 44.3     | 44.3    | 44.4    | 44.5    | 44.5    | 44.6  |
| GE 16000              | 27.2                             | 36.8     | 38.4     | 40.3     | 41.8     | 42.6     | 43.3     | 44.0     | 44.1     | 44.3     | 44.3     | 44.4    | 44.5    | 44.6    | 44.6    | 44.7  |
| GE 14000              | 27.7                             | 37.5     | 37.1     | 41.1     | 42.6     | 43.4     | 44.1     | 44.7     | 44.9     | 45.0     | 45.1     | 45.2    | 45.3    | 45.3    | 45.4    | 45.5  |
| GE 12000              | 28.6                             | 38.8     | 40.5     | 42.5     | 44.1     | 44.9     | 45.6     | 46.3     | 46.5     | 46.6     | 46.7     | 46.7    | 46.8    | 46.9    | 46.9    | 47.1  |
| GE 10000              | 29.8                             | 40.8     | 42.5     | 44.8     | 46.5     | 47.4     | 48.1     | 48.8     | 49.0     | 49.2     | 49.3     | 49.3    | 49.4    | 49.5    | 49.5    | 49.6  |
| GE 9000               | 30.3                             | 41.7     | 43.5     | 46.0     | 47.8     | 48.6     | 49.4     | 50.1     | 50.4     | 50.5     | 50.6     | 50.7    | 50.8    | 50.8    | 50.9    | 51.0  |
| GE 8000               | 30.5                             | 42.0     | 43.8     | 46.3     | 48.1     | 49.0     | 49.8     | 50.5     | 50.8     | 50.9     | 51.0     | 51.1    | 51.2    | 51.2    | 51.3    | 51.4  |
| GE 7000               | 30.7                             | 42.6     | 44.4     | 46.9     | 48.9     | 49.7     | 50.5     | 51.2     | 51.4     | 51.6     | 51.7     | 51.8    | 51.8    | 51.9    | 51.9    | 52.1  |
| GE 6000               | 31.5                             | 43.8     | 45.7     | 48.4     | 50.3     | 51.2     | 52.1     | 52.8     | 53.0     | 53.2     | 53.3     | 53.4    | 53.5    | 53.5    | 53.6    | 53.7  |
| GF 5000               | 34.1                             | 47.7     | 49.8     | 52.7     | 55.0     | 55.9     | 56.9     | 57.8     | 58.1     | 58.3     | 58.4     | 58.5    | 58.6    | 58.7    | 58.7    | 58.9  |
| GE 4000               | 36.5                             | 51.3     | 53.6     | 56.8     | 59.3     | 60.3     | 61.4     | 62.3     | 62.6     | 62.8     | 63.0     | 63.0    | 63.1    | 63.3    | 63.3    | 63.5  |
| GF 4000               | 38.3                             | 53.6     | 56.1     | 59.5     | 62.7     | 63.2     | 64.4     | 65.4     | 65.8     | 66.0     | 66.2     | 66.2    | 66.3    | 66.4    | 66.5    | 66.7  |
| GE 3500               | 39.3                             | 55.1     | 57.6     | 61.0     | 63.7     | 64.8     | 66.0     | 67.1     | 67.6     | 67.8     | 67.9     | 68.0    | 68.1    | 68.2    | 68.2    | 68.4  |
| GF 3000               | 41.2                             | 57.9     | 60.5     | 64.2     | 67.0     | 68.1     | 69.4     | 70.6     | 71.1     | 71.3     | 71.5     | 71.5    | 71.6    | 71.7    | 71.8    | 72.0  |
| GE 2500               | 47.1                             | 60.7     | 63.5     | 67.2     | 70.1     | 71.3     | 72.5     | 73.8     | 74.3     | 74.6     | 74.7     | 74.8    | 74.9    | 75.0    | 75.1    | 75.3  |
| GE 2000               | 45.1                             | 68.1     | 66.9     | 70.9     | 74.0     | 75.2     | 76.5     | 77.8     | 78.3     | 78.5     | 78.7     | 78.7    | 78.8    | 79.0    | 79.0    | 79.2  |
| GE 1800               | 46.0                             | 65.7     | 68.7     | 72.8     | 75.9     | 77.2     | 78.4     | 79.7     | 80.2     | 80.5     | 80.6     | 80.7    | 80.8    | 81.0    | 81.0    | 81.2  |
| GE 1500               | 47.4                             | 67.9     | 71.1     | 75.4     | 78.5     | 79.8     | 81.1     | 82.4     | 83.0     | 83.2     | 83.4     | 83.5    | 83.6    | 83.7    | 83.8    | 84.0  |
| GF 1200               | 47.7                             | 70.4     | 73.8     | 78.3     | 81.6     | 82.9     | 84.2     | 85.6     | 86.2     | 86.5     | 86.6     | 86.7    | 86.8    | 87.0    | 87.0    | 87.2  |
| GF 1000               | 49.0                             | 71.6     | 75.2     | 79.9     | 83.4     | 84.7     | 86.1     | 87.5     | 88.1     | 88.3     | 88.5     | 88.6    | 88.7    | 88.9    | 88.9    | 89.1  |
| GE 49.1               | 72.2                             | 75.9     | 80.7     | 84.3     | 85.7     | 87.1     | 88.6     | 89.1     | 89.4     | 89.6     | 89.7     | 89.8    | 90.0    | 90.0    | 90.2    | 90.2  |
| GE 800                | 49.3                             | 72.7     | 76.5     | 81.4     | 85.7     | 86.6     | 88.1     | 89.6     | 90.2     | 90.5     | 90.7     | 90.8    | 90.9    | 91.1    | 91.1    | 91.3  |
| GE 700                | 49.4                             | 73.3     | 77.2     | 92.4     | 86.3     | 87.8     | 89.4     | 91.0     | 91.6     | 91.9     | 92.1     | 92.1    | 92.3    | 92.4    | 92.5    | 92.7  |
| GF 600                | 49.5                             | 73.7     | 77.9     | 93.2     | 87.3     | 89.0     | 90.7     | 92.4     | 93.0     | 93.3     | 93.4     | 93.5    | 93.7    | 93.8    | 93.8    | 94.1  |
| GF 500                | 49.6                             | 74.0     | 78.3     | 83.9     | 88.2     | 90.0     | 91.7     | 93.4     | 94.0     | 94.3     | 94.5     | 94.6    | 94.7    | 94.9    | 94.9    | 95.1  |
| GE 49.6               | 74.3                             | 78.6     | 84.4     | 88.9     | 90.8     | 92.7     | 94.5     | 95.2     | 95.5     | 95.7     | 95.8     | 95.9    | 96.1    | 96.1    | 96.3    | 96.3  |
| GE 300                | 49.6                             | 74.5     | 78.9     | 84.8     | 89.6     | 91.6     | 93.7     | 95.9     | 96.6     | 97.0     | 97.2     | 97.3    | 97.4    | 97.6    | 97.6    | 97.8  |
| GE 200                | 49.6                             | 74.5     | 78.9     | 84.8     | 89.8     | 92.0     | 94.1     | 96.5     | 97.3     | 97.8     | 98.0     | 98.1    | 98.2    | 98.4    | 98.4    | 98.6  |
| GF 100                | 49.6                             | 74.5     | 78.9     | 94.8     | 89.9     | 92.0     | 94.2     | 96.7     | 97.6     | 98.2     | 98.4     | 98.6    | 98.8    | 98.9    | 99.0    | 99.2  |
| GE 0                  | 49.6                             | 74.5     | 78.9     | 84.8     | 89.9     | 92.0     | 94.2     | 96.7     | 97.6     | 98.2     | 98.5     | 98.6    | 98.9    | 99.0    | 99.1    | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 7128

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: ROSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0000-0200

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GF<br>5 | GE<br>4 | GE<br>0 |       |
| NO CEIL               | 21.5                             | 28.1     | 29.5     | 32.5     | 35.6     | 36.5     | 37.0     | 38.2     | 38.4     | 38.6     | 38.9     | 38.9    | 39.3    | 39.6    | 39.8    | 40.4  |
| GE 20000              | 26.4                             | 35.8     | 37.7     | 40.7     | 44.0     | 45.0     | 45.7     | 46.9     | 47.1     | 47.4     | 47.6     | 47.6    | 48.1    | 48.4    | 48.6    | 49.4  |
| GE 18000              | 26.4                             | 35.8     | 37.7     | 40.7     | 44.0     | 45.0     | 45.7     | 46.9     | 47.1     | 47.4     | 47.6     | 47.6    | 48.1    | 48.4    | 48.6    | 49.4  |
| GE 16000              | 26.5                             | 35.9     | 37.8     | 40.8     | 44.2     | 45.1     | 45.8     | 47.0     | 47.2     | 47.5     | 47.7     | 47.7    | 48.2    | 48.5    | 48.7    | 49.5  |
| GE 14000              | 27.2                             | 36.8     | 38.6     | 41.8     | 45.1     | 46.1     | 46.8     | 47.9     | 48.2     | 48.5     | 48.7     | 48.7    | 49.1    | 49.5    | 49.7    | 50.4  |
| GE 12000              | 27.3                             | 37.2     | 39.1     | 42.2     | 45.6     | 46.5     | 47.2     | 48.5     | 48.7     | 49.0     | 49.2     | 49.2    | 49.7    | 50.0    | 50.2    | 51.0  |
| GE 10000              | 28.2                             | 38.5     | 40.4     | 43.6     | 47.0     | 48.1     | 48.9     | 50.2     | 50.4     | 50.8     | 51.0     | 51.0    | 51.4    | 51.7    | 51.9    | 52.7  |
| GE 9000               | 28.7                             | 40.2     | 42.1     | 45.5     | 48.9     | 50.1     | 51.1     | 52.4     | 52.6     | 52.9     | 53.1     | 53.1    | 53.6    | 53.9    | 54.1    | 54.9  |
| GE 8000               | 28.7                             | 40.3     | 42.3     | 45.7     | 49.1     | 50.3     | 51.3     | 52.6     | 52.8     | 53.1     | 53.4     | 53.4    | 53.8    | 54.1    | 54.3    | 55.1  |
| GE 7000               | 29.0                             | 40.8     | 42.9     | 46.2     | 49.7     | 50.9     | 51.8     | 53.1     | 53.4     | 53.7     | 53.9     | 53.9    | 54.3    | 54.7    | 54.9    | 55.6  |
| GE 6000               | 29.5                             | 41.8     | 43.8     | 47.2     | 50.6     | 51.8     | 53.0     | 54.4     | 54.7     | 55.0     | 55.2     | 55.6    | 56.0    | 56.2    | 56.9    |       |
| GE 5000               | 31.2                             | 45.0     | 47.2     | 50.5     | 54.3     | 55.8     | 57.0     | 58.5     | 59.0     | 59.4     | 59.6     | 59.6    | 60.1    | 60.4    | 60.6    | 61.4  |
| GE 4500               | 33.1                             | 47.7     | 49.9     | 53.6     | 57.4     | 58.9     | 60.2     | 61.9     | 62.4     | 62.9     | 63.1     | 63.1    | 63.5    | 63.9    | 64.1    | 64.8  |
| GE 4000               | 33.7                             | 48.8     | 51.2     | 55.0     | 58.8     | 60.4     | 61.7     | 63.5     | 64.3     | 64.7     | 64.9     | 64.9    | 65.4    | 65.7    | 65.9    | 66.7  |
| GE 3500               | 35.3                             | 51.1     | 53.5     | 57.5     | 61.5     | 63.2     | 64.6     | 66.6     | 67.3     | 67.7     | 68.0     | 68.0    | 68.4    | 68.7    | 68.9    | 69.7  |
| GE 3000               | 36.5                             | 53.1     | 55.6     | 60.0     | 64.2     | 66.0     | 67.5     | 69.9     | 70.7     | 71.1     | 71.3     | 71.3    | 71.8    | 72.1    | 72.3    | 73.1  |
| GE 2500               | 38.0                             | 55.3     | 57.8     | 62.6     | 66.9     | 68.7     | 70.5     | 72.9     | 73.8     | 74.2     | 74.5     | 74.5    | 74.9    | 75.2    | 75.4    | 76.2  |
| GE 2000               | 38.6                             | 56.9     | 59.5     | 64.4     | 68.8     | 70.8     | 72.6     | 75.3     | 76.8     | 77.1     | 77.1     | 77.5    | 77.8    | 78.0    | 78.8    |       |
| GE 1800               | 39.0                             | 57.7     | 60.4     | 65.3     | 69.7     | 71.6     | 73.5     | 76.3     | 77.3     | 77.8     | 78.0     | 78.0    | 78.5    | 78.8    | 79.0    | 79.8  |
| GE 1500               | 39.5                             | 59.1     | 62.0     | 66.9     | 71.4     | 73.5     | 75.4     | 78.2     | 79.2     | 79.8     | 80.0     | 80.0    | 80.4    | 80.7    | 81.0    | 81.7  |
| GE 1200               | 40.3                             | 60.9     | 64.2     | 69.4     | 74.1     | 76.2     | 78.2     | 81.1     | 82.0     | 82.7     | 82.9     | 82.9    | 83.4    | 83.9    | 84.1    | 84.8  |
| GE 1000               | 40.7                             | 61.9     | 65.6     | 71.1     | 75.9     | 77.9     | 80.0     | 82.8     | 83.8     | 84.4     | 84.6     | 84.6    | 85.2    | 85.6    | 85.8    | 86.6  |
| GE 900                | 40.8                             | 62.4     | 66.1     | 71.6     | 76.4     | 78.5     | 80.5     | 83.3     | 84.3     | 85.0     | 85.2     | 85.2    | 85.7    | 86.1    | 86.4    | 87.1  |
| GE 800                | 41.0                             | 62.9     | 67.0     | 72.6     | 77.6     | 79.7     | 81.7     | 84.5     | 85.5     | 86.1     | 86.4     | 86.4    | 86.9    | 87.3    | 87.6    | 88.3  |
| GE 700                | 41.0                             | 63.2     | 67.5     | 73.6     | 78.8     | 81.8     | 83.0     | 85.8     | 86.9     | 87.6     | 87.8     | 87.8    | 88.3    | 88.7    | 89.0    | 89.7  |
| GE 600                | 41.2                             | 64.3     | 68.7     | 75.1     | 80.5     | 82.6     | 84.7     | 87.7     | 89.0     | 89.7     | 89.9     | 89.9    | 90.5    | 90.9    | 91.1    | 91.9  |
| GE 500                | 41.5                             | 64.7     | 69.2     | 75.6     | 81.1     | 83.1     | 85.3     | 88.3     | 89.6     | 90.5     | 90.7     | 90.8    | 91.3    | 91.8    | 92.0    | 92.7  |
| GE 400                | 41.5                             | 65.2     | 69.7     | 76.6     | 82.0     | 84.2     | 86.4     | 89.7     | 91.1     | 92.1     | 92.3     | 92.4    | 93.0    | 93.4    | 93.6    | 94.4  |
| GE 300                | 41.5                             | 65.6     | 70.2     | 77.3     | 82.3     | 85.1     | 87.2     | 90.7     | 92.3     | 93.4     | 93.6     | 93.8    | 94.4    | 94.8    | 95.0    | 95.8  |
| GE 200                | 41.5                             | 65.7     | 70.5     | 77.5     | 83.3     | 85.5     | 87.7     | 91.2     | 92.9     | 93.9     | 94.2     | 94.4    | 94.9    | 95.3    | 95.6    | 96.3  |
| GE 100                | 41.5                             | 65.8     | 70.7     | 78.0     | 83.9     | 86.4     | 88.5     | 92.4     | 94.0     | 95.3     | 95.6     | 95.8    | 96.3    | 96.8    | 97.0    | 97.7  |
| GE 0                  | 41.5                             | 65.8     | 70.7     | 78.0     | 83.0     | 86.4     | 88.5     | 92.4     | 94.3     | 95.7     | 96.2     | 96.5    | 97.2    | 98.2    | 98.5    | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: ROSSOMME DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0300-0500

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GF<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |
| NO CEIL               | 16.6                             | 23.1     | 24.1     | 26.5     | 27.7     | 26.7     | 29.5     | 30.6     | 31.0     | 31.8     | 32.0     | 32.0    | 32.3    | 32.5    | 33.1    | 34.5  |
| GE 20000              | 20.7                             | 28.7     | 30.4     | 33.4     | 34.7     | 36.0     | 36.9     | 38.8     | 39.3     | 40.1     | 40.7     | 40.3    | 40.6    | 40.9    | 41.5    | 43.0  |
| GE 18000              | 20.7                             | 28.7     | 30.4     | 33.4     | 34.7     | 36.0     | 36.9     | 38.9     | 39.4     | 40.2     | 40.4     | 40.4    | 40.7    | 41.1    | 41.6    | 43.1  |
| GE 16000              | 20.7                             | 28.7     | 30.4     | 33.4     | 34.7     | 36.0     | 36.9     | 38.9     | 39.4     | 40.3     | 40.5     | 40.5    | 40.8    | 41.2    | 41.7    | 43.2  |
| GE 14000              | 20.5                             | 29.1     | 30.8     | 33.9     | 35.2     | 36.5     | 37.4     | 39.4     | 40.0     | 40.8     | 41.1     | 41.1    | 41.4    | 41.7    | 42.2    | 43.5  |
| GE 12000              | 21.3                             | 29.7     | 31.5     | 34.6     | 36.0     | 37.3     | 38.1     | 40.2     | 40.7     | 41.6     | 41.8     | 41.8    | 42.2    | 42.6    | 43.1    | 44.6  |
| GE 10000              | 22.7                             | 31.6     | 33.4     | 36.6     | 38.3     | 39.8     | 40.8     | 42.9     | 43.4     | 44.3     | 44.5     | 44.5    | 45.0    | 45.5    | 46.0    | 47.6  |
| GE 9000               | 23.9                             | 33.3     | 35.3     | 38.8     | 40.4     | 41.9     | 43.2     | 45.4     | 45.9     | 46.8     | 47.0     | 47.0    | 47.5    | 48.0    | 48.5    | 50.1  |
| GE 8000               | 23.9                             | 33.6     | 35.9     | 39.4     | 41.1     | 42.6     | 43.9     | 46.0     | 46.6     | 47.4     | 47.6     | 47.6    | 48.2    | 48.6    | 49.1    | 50.8  |
| GE 7000               | 23.9                             | 33.7     | 36.0     | 39.5     | 41.2     | 42.7     | 44.0     | 46.1     | 46.7     | 47.5     | 47.7     | 47.7    | 48.3    | 48.7    | 49.2    | 50.9  |
| GE 6000               | 24.4                             | 34.9     | 37.3     | 41.2     | 42.8     | 44.3     | 45.6     | 48.0     | 48.6     | 49.6     | 49.8     | 49.8    | 50.3    | 50.8    | 51.3    | 52.9  |
| GE 5000               | 26.2                             | 36.7     | 39.2     | 43.3     | 45.5     | 47.3     | 48.9     | 51.7     | 52.5     | 53.4     | 53.7     | 53.7    | 54.2    | 54.6    | 55.2    | 56.8  |
| GE 4500               | 26.3                             | 38.1     | 40.6     | 44.7     | 46.9     | 48.7     | 50.4     | 53.3     | 54.2     | 55.5     | 55.7     | 55.7    | 56.3    | 56.7    | 57.2    | 58.8  |
| GE 4000               | 26.6                             | 38.5     | 41.4     | 45.8     | 48.2     | 50.1     | 51.8     | 55.1     | 56.0     | 57.3     | 57.7     | 57.7    | 58.2    | 58.6    | 59.2    | 60.8  |
| GE 3500               | 27.4                             | 39.9     | 42.6     | 47.2     | 49.8     | 51.8     | 53.6     | 56.8     | 57.8     | 59.1     | 59.4     | 59.4    | 59.9    | 60.3    | 60.9    | 62.5  |
| GE 3000               | 28.7                             | 41.6     | 44.3     | 49.0     | 51.6     | 53.8     | 55.6     | 58.8     | 59.9     | 61.2     | 61.5     | 61.5    | 62.1    | 62.6    | 63.1    | 64.8  |
| GE 2500               | 29.3                             | 42.9     | 46.0     | 51.1     | 54.1     | 56.3     | 58.3     | 61.6     | 62.8     | 64.2     | 64.5     | 64.5    | 65.1    | 65.6    | 66.2    | 67.8  |
| GE 2000               | 29.8                             | 44.2     | 47.3     | 52.4     | 55.6     | 57.9     | 60.0     | 63.7     | 64.9     | 66.3     | 66.6     | 66.6    | 67.1    | 67.7    | 68.2    | 69.8  |
| GE 1800               | 30.9                             | 45.5     | 48.6     | 53.9     | 57.2     | 59.5     | 61.6     | 65.4     | 66.6     | 68.0     | 68.3     | 68.5    | 69.1    | 69.6    | 70.2    | 71.8  |
| GE 1500               | 37.2                             | 47.3     | 50.6     | 56.3     | 60.0     | 62.4     | 64.5     | 67.4     | 69.6     | 71.1     | 71.4     | 71.7    | 72.3    | 72.8    | 73.4    | 75.0  |
| GE 1200               | 33.5                             | 49.8     | 53.1     | 59.3     | 63.1     | 65.5     | 67.7     | 71.7     | 73.0     | 74.9     | 75.2     | 75.4    | 76.2    | 76.7    | 77.3    | 78.9  |
| GE 1000               | 34.2                             | 51.3     | 55.1     | 61.4     | 65.6     | 68.0     | 70.3     | 74.2     | 75.5     | 77.5     | 77.9     | 78.1    | 78.9    | 79.4    | 80.0    | 81.6  |
| GE 900                | 34.2                             | 51.7     | 55.7     | 62.1     | 66.3     | 68.6     | 70.9     | 74.9     | 76.2     | 78.1     | 78.6     | 78.8    | 79.5    | 80.1    | 80.6    | 82.2  |
| GE 800                | 34.3                             | 52.4     | 56.4     | 62.9     | 67.2     | 70.6     | 72.0     | 76.1     | 77.6     | 79.6     | 80.1     | 80.3    | 81.0    | 81.6    | 82.1    | 83.7  |
| GE 700                | 34.4                             | 53.3     | 57.4     | 64.3     | 68.7     | 71.3     | 74.0     | 78.2     | 79.7     | 81.9     | 82.3     | 82.5    | 83.3    | 83.8    | 84.4    | 86.0  |
| GE 600                | 34.5                             | 53.4     | 57.5     | 64.8     | 69.7     | 71.8     | 74.5     | 79.0     | 80.6     | 82.9     | 83.3     | 83.5    | 84.3    | 84.8    | 85.3    | 87.0  |
| GE 500                | 34.5                             | 53.8     | 57.9     | 65.2     | 70.0     | 72.5     | 75.2     | 79.7     | 81.4     | 83.6     | 84.1     | 84.3    | 85.0    | 85.6    | 86.1    | 87.7  |
| GE 400                | 35.0                             | 55.0     | 59.5     | 66.9     | 72.7     | 75.0     | 77.9     | 82.7     | 84.4     | 86.6     | 87.1     | 87.3    | 88.0    | 88.7    | 89.2    | 90.8  |
| GE 300                | 35.0                             | 55.1     | 59.7     | 67.5     | 72.8     | 75.6     | 78.6     | 83.5     | 85.1     | 87.8     | 88.3     | 88.6    | 89.3    | 90.1    | 90.6    | 92.2  |
| GE 200                | 35.0                             | 55.2     | 59.9     | 67.9     | 73.4     | 76.5     | 79.4     | 84.7     | 87.1     | 89.3     | 89.9     | 90.2    | 90.9    | 91.7    | 92.2    | 93.9  |
| GE 100                | 35.0                             | 55.3     | 60.0     | 68.0     | 73.8     | 77.2     | 80.2     | 85.9     | 88.4     | 91.1     | 91.9     | 92.9    | 93.9    | 94.4    | 96.7    |       |
| GE 0                  | 35.0                             | 55.3     | 60.0     | 68.0     | 73.9     | 77.3     | 80.3     | 86.1     | 88.6     | 91.5     | 92.1     | 92.7    | 93.6    | 94.9    | 95.8    | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 928

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 0600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |  |
| NO CEIL               | 12.2                             | 19.4     | 20.4     | 21.9     | 23.4     | 24.4     | 24.9     | 26.2     | 26.5     | 26.9     | 27.0     | 27.0    | 27.2    | 27.6    | 27.6    | 28.2  |  |  |
| GE 20000              | 17.2                             | 26.9     | 28.4     | 31.4     | 33.1     | 34.2     | 35.0     | 36.4     | 36.7     | 37.3     | 37.4     | 37.4    | 37.9    | 38.4    | 38.4    | 39.3  |  |  |
| GE 18000              | 17.2                             | 26.9     | 28.4     | 31.5     | 33.2     | 34.3     | 35.1     | 36.5     | 36.8     | 37.4     | 37.5     | 37.5    | 38.0    | 38.5    | 38.5    | 39.4  |  |  |
| GE 16000              | 17.2                             | 26.9     | 28.4     | 31.5     | 33.2     | 34.3     | 35.1     | 36.5     | 36.8     | 37.4     | 37.5     | 37.5    | 38.0    | 38.5    | 38.5    | 39.4  |  |  |
| GE 14000              | 17.2                             | 27.2     | 28.7     | 31.9     | 33.7     | 34.7     | 35.5     | 36.9     | 37.2     | 37.9     | 38.0     | 38.4    | 38.9    | 38.9    | 39.8    |       |  |  |
| GE 12000              | 17.5                             | 27.7     | 29.2     | 32.5     | 34.2     | 35.4     | 36.1     | 37.6     | 38.1     | 38.7     | 38.8     | 38.8    | 39.3    | 39.8    | 39.8    | 40.7  |  |  |
| GE 10000              | 18.6                             | 29.2     | 31.1     | 34.6     | 36.4     | 37.9     | 38.7     | 40.7     | 41.2     | 41.9     | 42.0     | 42.0    | 42.4    | 42.9    | 42.9    | 43.8  |  |  |
| GE 9000               | 19.3                             | 30.4     | 32.3     | 35.9     | 38.0     | 39.6     | 40.5     | 42.5     | 43.0     | 43.7     | 43.9     | 43.9    | 44.3    | 44.9    | 44.9    | 45.7  |  |  |
| GE 8000               | 19.4                             | 30.5     | 32.4     | 36.0     | 38.4     | 40.3     | 41.3     | 43.4     | 43.9     | 44.7     | 44.9     | 44.9    | 45.3    | 45.8    | 45.8    | 46.7  |  |  |
| GE 7000               | 19.4                             | 30.5     | 32.4     | 36.0     | 38.4     | 40.3     | 41.3     | 43.4     | 43.9     | 44.7     | 44.9     | 44.9    | 45.3    | 45.8    | 45.8    | 46.7  |  |  |
| GE 6000               | 20.0                             | 31.6     | 33.5     | 37.4     | 39.8     | 42.0     | 42.9     | 45.1     | 45.6     | 46.4     | 46.6     | 46.6    | 47.0    | 47.6    | 47.6    | 48.4  |  |  |
| GE 5000               | 21.8                             | 34.5     | 36.9     | 40.9     | 43.5     | 46.0     | 47.0     | 49.7     | 50.3     | 51.1     | 51.3     | 51.3    | 51.8    | 52.3    | 52.3    | 53.2  |  |  |
| GE 4500               | 22.4                             | 35.5     | 38.1     | 42.4     | 45.1     | 47.8     | 49.0     | 52.0     | 52.6     | 53.5     | 53.7     | 53.7    | 54.2    | 54.7    | 54.7    | 55.6  |  |  |
| GE 4000               | 23.7                             | 36.9     | 39.6     | 44.0     | 46.8     | 49.5     | 50.7     | 53.9     | 54.6     | 55.4     | 55.7     | 55.7    | 56.1    | 56.6    | 56.6    | 57.5  |  |  |
| GE 3500               | 23.9                             | 37.1     | 39.8     | 44.3     | 47.1     | 49.8     | 51.0     | 54.3     | 54.9     | 55.8     | 56.0     | 56.0    | 56.4    | 57.0    | 57.0    | 57.8  |  |  |
| GE 3000               | 24.9                             | 38.5     | 41.2     | 46.0     | 48.8     | 51.5     | 52.6     | 56.0     | 56.6     | 57.5     | 57.7     | 57.7    | 58.1    | 58.7    | 58.7    | 59.5  |  |  |
| GE 2500               | 26.5                             | 41.3     | 44.0     | 49.0     | 52.0     | 54.7     | 56.0     | 59.3     | 60.0     | 60.8     | 61.2     | 61.2    | 61.6    | 62.1    | 62.1    | 63.0  |  |  |
| GE 2000               | 27.8                             | 43.6     | 46.5     | 51.6     | 54.6     | 57.4     | 58.7     | 62.0     | 62.7     | 63.5     | 63.9     | 63.9    | 64.3    | 64.8    | 64.8    | 65.7  |  |  |
| GE 1800               | 28.7                             | 44.7     | 47.7     | 52.9     | 55.9     | 58.7     | 60.0     | 63.4     | 64.1     | 64.9     | 65.3     | 65.3    | 65.7    | 66.2    | 66.2    | 67.1  |  |  |
| GE 1700               | 30.9                             | 47.4     | 50.5     | 55.7     | 59.0     | 61.9     | 63.3     | 66.9     | 67.5     | 68.5     | 68.9     | 68.9    | 69.4    | 69.9    | 69.9    | 70.8  |  |  |
| GE 1200               | 37.4                             | 51.2     | 54.5     | 60.0     | 63.8     | 66.8     | 68.3     | 72.0     | 72.7     | 73.7     | 74.1     | 74.1    | 74.5    | 75.1    | 75.1    | 75.9  |  |  |
| GE 1000               | 34.6                             | 53.1     | 56.3     | 62.4     | 66.2     | 69.5     | 71.0     | 74.6     | 75.4     | 76.4     | 76.8     | 76.8    | 77.2    | 77.8    | 77.8    | 78.6  |  |  |
| GE 900                | 35.1                             | 53.9     | 57.3     | 63.8     | 67.7     | 71.0     | 72.5     | 76.2     | 76.9     | 77.9     | 78.3     | 78.3    | 78.7    | 79.3    | 79.3    | 80.2  |  |  |
| GE 800                | 35.5                             | 55.0     | 58.5     | 65.2     | 69.3     | 72.5     | 74.1     | 78.0     | 78.7     | 79.7     | 80.2     | 80.2    | 80.6    | 81.1    | 81.1    | 82.0  |  |  |
| GE 700                | 36.4                             | 56.7     | 60.2     | 67.0     | 71.2     | 74.8     | 76.4     | 80.3     | 81.2     | 82.2     | 82.6     | 82.6    | 83.1    | 83.6    | 83.6    | 84.5  |  |  |
| GE 600                | 36.6                             | 57.5     | 61.2     | 68.6     | 73.0     | 76.8     | 78.4     | 82.3     | 83.4     | 84.4     | 84.8     | 84.8    | 85.2    | 85.8    | 85.8    | 86.6  |  |  |
| GE 500                | 37.0                             | 58.8     | 62.6     | 70.2     | 75.0     | 79.0     | 81.0     | 85.0     | 86.1     | 87.3     | 87.8     | 87.8    | 88.2    | 88.8    | 88.8    | 89.6  |  |  |
| GE 400                | 37.0                             | 59.2     | 63.1     | 70.9     | 76.3     | 80.5     | 83.0     | 87.2     | 88.2     | 89.5     | 90.1     | 90.1    | 90.5    | 91.0    | 91.0    | 91.9  |  |  |
| GE 300                | 37.0                             | 59.3     | 63.2     | 71.3     | 76.8     | 81.4     | 84.3     | 89.0     | 90.2     | 91.5     | 92.1     | 92.1    | 92.6    | 93.1    | 93.1    | 94.0  |  |  |
| GE 200                | 37.0                             | 59.3     | 63.2     | 71.5     | 77.3     | 82.3     | 85.2     | 90.3     | 91.8     | 93.2     | 94.1     | 94.2    | 94.6    | 95.1    | 95.1    | 96.0  |  |  |
| GE 100                | 37.0                             | 59.3     | 63.2     | 71.5     | 77.3     | 82.3     | 85.3     | 90.5     | 92.2     | 93.9     | 94.7     | 95.0    | 95.6    | 96.3    | 96.3    | 97.4  |  |  |
| GE 0                  | 37.0                             | 59.3     | 63.2     | 71.5     | 77.3     | 82.3     | 85.3     | 90.5     | 92.4     | 94.2     | 95.3     | 95.6    | 96.2    | 97.4    | 97.7    | 100.0 |  |  |

TOTAL NUMBER OF OBSERVATIONS: 927

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86

MONTH: MAY HOURS(LST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |
| NO CEIL               | 15.3                             | 20.7     | 22.1     | 23.3     | 24.1     | 24.2     | 24.4     | 24.4     | 24.4     | 24.4     | 24.4     | 24.4    | 24.4    | 24.4    | 24.4    | 24.4 |
| GE 20000              | 22.9                             | 30.3     | 32.0     | 33.5     | 34.2     | 34.3     | 34.6     | 34.6     | 34.6     | 34.6     | 34.6     | 34.6    | 34.6    | 34.6    | 34.6    | 34.6 |
| GE 18000              | 23.0                             | 30.4     | 32.1     | 33.6     | 34.3     | 34.5     | 34.7     | 34.7     | 34.7     | 34.7     | 34.7     | 34.7    | 34.7    | 34.7    | 34.7    | 34.7 |
| GE 16000              | 23.0                             | 30.4     | 32.1     | 33.6     | 34.3     | 34.5     | 34.7     | 34.7     | 34.7     | 34.7     | 34.7     | 34.7    | 34.7    | 34.7    | 34.7    | 34.7 |
| GE 14000              | 23.2                             | 30.8     | 32.5     | 34.0     | 34.8     | 34.9     | 35.1     | 35.1     | 35.1     | 35.1     | 35.1     | 35.1    | 35.1    | 35.1    | 35.1    | 35.1 |
| GE 12000              | 24.6                             | 32.4     | 34.1     | 35.6     | 36.5     | 36.6     | 36.9     | 36.9     | 36.9     | 36.9     | 36.9     | 36.9    | 36.9    | 36.9    | 36.9    | 36.9 |
| GE 10000              | 25.7                             | 34.0     | 36.0     | 37.5     | 38.6     | 38.9     | 39.2     | 39.3     | 39.3     | 39.3     | 39.3     | 39.3    | 39.3    | 39.3    | 39.3    | 39.3 |
| GE 9000               | 27.0                             | 35.6     | 37.8     | 39.3     | 40.6     | 41.0     | 41.3     | 41.4     | 41.4     | 41.4     | 41.4     | 41.4    | 41.4    | 41.4    | 41.4    | 41.4 |
| GE 8000               | 27.1                             | 35.9     | 38.0     | 39.7     | 41.1     | 41.4     | 41.8     | 41.9     | 41.9     | 41.9     | 41.9     | 41.9    | 41.9    | 41.9    | 41.9    | 41.9 |
| GE 7000               | 27.5                             | 36.4     | 38.6     | 40.3     | 41.7     | 42.0     | 42.5     | 42.6     | 42.7     | 42.7     | 42.7     | 42.7    | 42.7    | 42.7    | 42.7    | 42.7 |
| GE 6000               | 24.3                             | 37.7     | 39.9     | 41.6     | 43.1     | 43.6     | 44.0     | 44.1     | 44.2     | 44.2     | 44.2     | 44.2    | 44.2    | 44.2    | 44.2    | 44.2 |
| GE 5000               | 30.8                             | 41.3     | 43.4     | 45.3     | 47.0     | 47.6     | 48.1     | 48.2     | 48.3     | 48.3     | 48.3     | 48.3    | 48.3    | 48.3    | 48.3    | 48.3 |
| GE 4500               | 34.3                             | 45.1     | 47.2     | 49.7     | 51.6     | 52.2     | 52.9     | 53.0     | 53.1     | 53.1     | 53.1     | 53.1    | 53.1    | 53.1    | 53.1    | 53.1 |
| GE 4000               | 36.4                             | 48.0     | 50.2     | 52.8     | 54.6     | 55.3     | 55.9     | 56.0     | 56.1     | 56.1     | 56.1     | 56.1    | 56.1    | 56.1    | 56.1    | 56.1 |
| GE 3500               | 37.3                             | 48.9     | 51.0     | 53.6     | 55.5     | 56.1     | 56.8     | 56.9     | 57.0     | 57.0     | 57.0     | 57.0    | 57.0    | 57.0    | 57.0    | 57.0 |
| GE 3000               | 39.0                             | 51.2     | 53.5     | 56.3     | 58.3     | 58.9     | 59.6     | 59.7     | 59.8     | 59.8     | 59.8     | 59.8    | 59.8    | 59.8    | 59.8    | 59.8 |
| GE 2500               | 41.6                             | 54.6     | 57.0     | 60.0     | 62.0     | 62.6     | 63.3     | 63.4     | 63.5     | 63.5     | 63.5     | 63.5    | 63.5    | 63.5    | 63.5    | 63.5 |
| GE 2000               | 46.5                             | 60.0     | 62.8     | 66.1     | 68.1     | 68.8     | 69.4     | 69.6     | 69.7     | 69.7     | 69.7     | 69.7    | 69.7    | 69.7    | 69.7    | 69.7 |
| GE 1800               | 49.2                             | 63.2     | 66.1     | 69.3     | 71.4     | 72.0     | 72.7     | 72.9     | 73.0     | 73.0     | 73.0     | 73.0    | 73.0    | 73.0    | 73.0    | 73.0 |
| GE 1500               | 51.7                             | 66.6     | 70.0     | 73.9     | 76.2     | 76.8     | 77.5     | 77.7     | 77.8     | 77.8     | 77.8     | 77.8    | 77.8    | 77.8    | 77.8    | 77.8 |
| GE 1200               | 55.0                             | 71.6     | 75.3     | 79.4     | 82.3     | 83.1     | 83.9     | 84.1     | 84.2     | 84.2     | 84.2     | 84.2    | 84.2    | 84.2    | 84.2    | 84.2 |
| GE 1000               | 55.5                             | 72.3     | 76.4     | 81.0     | 84.3     | 85.4     | 86.3     | 86.6     | 86.7     | 86.7     | 86.7     | 86.7    | 86.7    | 86.7    | 86.7    | 86.7 |
| GE 900                | 56.0                             | 73.5     | 77.7     | 82.6     | 85.9     | 87.0     | 88.2     | 88.4     | 88.5     | 88.5     | 88.5     | 88.5    | 88.5    | 88.5    | 88.5    | 88.5 |
| GE 800                | 56.4                             | 74.4     | 78.7     | 84.2     | 87.9     | 89.9     | 90.1     | 90.4     | 90.5     | 90.5     | 90.5     | 90.5    | 90.5    | 90.5    | 90.5    | 90.5 |
| GE 700                | 57.1                             | 75.5     | 79.8     | 85.7     | 89.8     | 90.9     | 92.4     | 92.7     | 92.8     | 92.8     | 92.8     | 92.8    | 92.8    | 92.8    | 92.8    | 92.8 |
| GE 600                | 57.1                             | 75.8     | 80.2     | 86.7     | 91.2     | 92.5     | 94.3     | 94.8     | 94.9     | 94.9     | 94.9     | 94.9    | 94.9    | 94.9    | 94.9    | 94.9 |
| GE 500                | 57.2                             | 76.1     | 80.5     | 87.1     | 91.8     | 93.2     | 94.9     | 95.6     | 95.7     | 95.7     | 95.7     | 95.7    | 95.7    | 95.7    | 95.7    | 95.7 |
| GE 400                | 57.2                             | 76.5     | 81.1     | 88.0     | 93.0     | 94.4     | 96.2     | 97.3     | 97.4     | 97.4     | 97.4     | 97.4    | 97.4    | 97.4    | 97.4    | 97.4 |
| GE 300                | 57.2                             | 76.5     | 81.3     | 88.4     | 93.0     | 95.1     | 97.1     | 98.4     | 98.5     | 98.5     | 98.5     | 98.5    | 98.5    | 98.5    | 98.5    | 98.5 |
| GE 200                | 57.2                             | 76.5     | 81.3     | 88.4     | 93.7     | 95.6     | 97.5     | 99.0     | 99.2     | 99.2     | 99.3     | 99.3    | 99.3    | 99.3    | 99.3    | 99.3 |
| GE 100                | 57.2                             | 76.5     | 81.3     | 88.4     | 93.7     | 95.6     | 97.5     | 99.0     | 99.3     | 99.3     | 99.6     | 99.6    | 99.6    | 99.6    | 99.6    | 99.6 |
| GE 0                  | 57.2                             | 76.5     | 81.3     | 88.4     | 93.7     | 95.6     | 97.5     | 99.0     | 99.3     | 99.3     | 99.6     | 99.6    | 99.6    | 99.6    | 99.6    | 99.6 |

TOTAL NUMBER OF OBSERVATIONS: 923

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 1200-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|
|                       | GT<br>160                        | GE<br>90 | GL<br>40 | GE<br>60 | GE<br>43 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GF<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |
| NO CEIL               | 15.2                             | 20.2     | 20.5     | 21.0     | 21.2     | 21.4     | 21.6     | 21.6     | 21.6     | 21.6     | 21.6     | 21.6     | 21.6    | 21.6    | 21.6    | 21.6    | 21.6  |  |
| GE 20000              | 27.7                             | 33.4     | 33.6     | 34.4     | 34.3     | 35.0     | 35.3     | 35.3     | 35.3     | 35.3     | 35.3     | 35.3     | 35.3    | 35.3    | 35.3    | 35.3    | 35.3  |  |
| GE 18000              | 27.7                             | 33.4     | 33.6     | 34.4     | 34.8     | 35.0     | 35.3     | 35.3     | 35.3     | 35.3     | 35.3     | 35.3     | 35.3    | 35.3    | 35.3    | 35.3    | 35.3  |  |
| GE 16000              | 27.7                             | 33.4     | 33.6     | 34.4     | 34.4     | 35.0     | 35.3     | 35.3     | 35.3     | 35.3     | 35.3     | 35.3     | 35.3    | 35.3    | 35.3    | 35.3    | 35.3  |  |
| GE 14000              | 29.5                             | 34.3     | 34.7     | 35.3     | 35.7     | 36.9     | 36.1     | 36.1     | 36.1     | 36.1     | 36.1     | 36.1     | 36.1    | 36.1    | 36.1    | 36.1    | 36.1  |  |
| GE 12000              | 29.6                             | 35.5     | 35.9     | 36.6     | 37.0     | 37.2     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4    | 37.4    | 37.4    | 37.4    | 37.4  |  |
| GE 10000              | 31.0                             | 37.4     | 38.1     | 38.9     | 39.3     | 39.5     | 39.7     | 39.7     | 39.7     | 39.7     | 39.7     | 39.7     | 39.7    | 39.7    | 39.7    | 39.7    | 39.7  |  |
| GE 9000               | 32.4                             | 39.4     | 40.1     | 40.8     | 41.3     | 41.6     | 41.8     | 41.8     | 41.8     | 41.8     | 41.8     | 41.8     | 41.8    | 41.8    | 41.8    | 41.8    | 41.8  |  |
| GE 8000               | 32.5                             | 39.5     | 40.2     | 40.9     | 41.5     | 41.8     | 42.0     | 42.0     | 42.0     | 42.0     | 42.0     | 42.0     | 42.0    | 42.0    | 42.0    | 42.0    | 42.0  |  |
| GE 7000               | 33.3                             | 40.5     | 41.2     | 41.9     | 42.5     | 42.8     | 43.0     | 43.0     | 43.0     | 43.0     | 43.0     | 43.0     | 43.0    | 43.0    | 43.0    | 43.0    | 43.0  |  |
| GE 6000               | 34.5                             | 42.9     | 43.6     | 44.4     | 45.5     | 46.0     | 46.2     | 46.2     | 46.2     | 46.2     | 46.2     | 46.2     | 46.2    | 46.2    | 46.2    | 46.2    | 46.2  |  |
| GE 5000               | 39.4                             | 48.9     | 49.8     | 51.0     | 52.2     | 52.6     | 52.8     | 52.8     | 52.8     | 52.8     | 52.8     | 52.8     | 52.8    | 52.8    | 52.8    | 52.8    | 52.8  |  |
| GE 4500               | 44.6                             | 55.3     | 56.4     | 58.0     | 59.3     | 59.9     | 60.2     | 60.2     | 60.2     | 60.2     | 60.2     | 60.2     | 60.2    | 60.2    | 60.2    | 60.2    | 60.2  |  |
| GE 4000               | 47.9                             | 59.8     | 61.0     | 62.8     | 64.1     | 64.7     | 65.1     | 65.1     | 65.1     | 65.1     | 65.1     | 65.1     | 65.1    | 65.1    | 65.1    | 65.1    | 65.1  |  |
| GE 3500               | 50.5                             | 62.6     | 64.1     | 65.8     | 67.1     | 67.8     | 68.1     | 68.1     | 68.1     | 68.1     | 68.1     | 68.1     | 68.1    | 68.1    | 68.1    | 68.1    | 68.1  |  |
| GE 3000               | 53.5                             | 66.2     | 67.7     | 69.4     | 70.9     | 71.5     | 71.8     | 71.8     | 71.8     | 71.8     | 71.8     | 71.8     | 71.8    | 71.8    | 71.8    | 71.8    | 71.8  |  |
| GE 2500               | 57.8                             | 71.2     | 73.0     | 74.9     | 76.3     | 77.0     | 77.3     | 77.3     | 77.3     | 77.3     | 77.3     | 77.3     | 77.3    | 77.3    | 77.3    | 77.3    | 77.3  |  |
| GE 2000               | 60.9                             | 75.3     | 77.3     | 79.5     | 81.1     | 81.7     | 82.0     | 82.0     | 82.0     | 82.0     | 82.0     | 82.0     | 82.0    | 82.0    | 82.0    | 82.0    | 82.0  |  |
| GE 1800               | 63.2                             | 78.6     | 80.6     | 82.9     | 84.5     | 85.2     | 85.5     | 85.5     | 85.5     | 85.5     | 85.5     | 85.5     | 85.5    | 85.5    | 85.5    | 85.5    | 85.5  |  |
| GE 1500               | 65.3                             | 81.6     | 83.6     | 86.0     | 87.9     | 88.5     | 88.9     | 88.9     | 88.9     | 88.9     | 88.9     | 88.9     | 88.9    | 88.9    | 88.9    | 88.9    | 88.9  |  |
| GE 1200               | 66.3                             | 83.4     | 85.6     | 88.5     | 90.6     | 91.3     | 91.6     | 91.6     | 91.6     | 91.6     | 91.6     | 91.6     | 91.6    | 91.6    | 91.6    | 91.6    | 91.6  |  |
| GE 1000               | 66.8                             | 84.5     | 86.9     | 90.2     | 92.4     | 93.0     | 93.3     | 93.3     | 93.3     | 93.3     | 93.3     | 93.3     | 93.3    | 93.3    | 93.3    | 93.3    | 93.3  |  |
| GE 900                | 66.9                             | 84.6     | 87.3     | 90.7     | 93.0     | 93.8     | 94.1     | 94.1     | 94.1     | 94.1     | 94.1     | 94.1     | 94.1    | 94.1    | 94.1    | 94.1    | 94.1  |  |
| GE 800                | 67.1                             | 85.2     | 87.7     | 91.3     | 94.1     | 94.8     | 95.1     | 95.1     | 95.1     | 95.1     | 95.1     | 95.1     | 95.1    | 95.1    | 95.1    | 95.1    | 95.1  |  |
| GE 700                | 67.2                             | 85.7     | 88.2     | 91.8     | 94.7     | 95.4     | 95.7     | 95.7     | 95.7     | 95.7     | 95.7     | 95.7     | 95.7    | 95.7    | 95.7    | 95.7    | 95.7  |  |
| GE 600                | 67.4                             | 86.6     | 89.1     | 92.8     | 95.7     | 96.5     | 97.1     | 97.2     | 97.3     | 97.3     | 97.3     | 97.3     | 97.3    | 97.3    | 97.3    | 97.3    | 97.3  |  |
| GE 500                | 67.5                             | 86.7     | 89.3     | 93.0     | 96.1     | 96.8     | 97.4     | 97.5     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6    | 97.6    | 97.6    | 97.6    | 97.6  |  |
| GE 400                | 67.5                             | 86.9     | 89.5     | 93.3     | 96.5     | 97.4     | 98.0     | 98.3     | 98.4     | 98.4     | 98.4     | 98.4     | 98.4    | 98.4    | 98.4    | 98.4    | 98.4  |  |
| GE 300                | 67.5                             | 86.9     | 89.6     | 93.7     | 96.7     | 97.8     | 98.5     | 98.8     | 99.0     | 99.1     | 99.1     | 99.2     | 99.2    | 99.2    | 99.2    | 99.2    | 99.2  |  |
| GE 200                | 67.5                             | 86.9     | 89.6     | 93.7     | 96.9     | 97.8     | 98.7     | 99.1     | 99.3     | 99.5     | 99.6     | 99.7     | 99.7    | 99.7    | 99.7    | 99.7    | 99.7  |  |
| GE 100                | 67.5                             | 86.9     | 89.6     | 93.7     | 96.9     | 97.8     | 98.7     | 99.1     | 99.3     | 99.6     | 99.8     | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   | 100.0 |  |
| GE 0                  | 67.5                             | 86.9     | 89.6     | 93.7     | 96.4     | 97.8     | 98.7     | 99.1     | 99.3     | 99.6     | 99.8     | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   | 100.0 |  |

TOTAL NUMBER OF OBSERVATIONS: 916

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 1500-1700

| CEILING  | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |
|----------|----------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
|          | IN                               | GT   | GE    | GE    | GE    | GE    | GE    | GE    | GE    | GF    |
| FEET     | 160                              | 90   | 80   | 60   | 48   | 40   | 32   | 24   | 20    | 16    | 12    | 10    | 8     | 5     | 4     | 0     |
| NO CEIL  | 18.9                             | 23.5 | 23.8 | 25.9 | 24.4 | 24.8 | 24.8 | 24.8 | 24.8  | 24.8  | 24.8  | 24.8  | 24.8  | 24.8  | 24.8  | 24.8  |
| GE 20000 | 33.2                             | 38.9 | 39.5 | 39.6 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8  | 40.8  | 40.8  | 40.8  | 40.8  | 40.8  | 40.8  | 40.8  |
| GE 18000 | 33.5                             | 39.2 | 39.8 | 40.2 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1  | 41.1  | 41.1  | 41.1  | 41.1  | 41.1  | 41.1  | 41.1  |
| GE 16000 | 33.5                             | 39.2 | 39.8 | 40.2 | 41.1 | 41.1 | 41.1 | 41.1 | 41.1  | 41.1  | 41.1  | 41.1  | 41.1  | 41.1  | 41.1  | 41.1  |
| GE 14000 | 34.5                             | 40.3 | 40.9 | 41.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2  | 42.2  | 42.2  | 42.2  | 42.2  | 42.2  | 42.2  | 42.2  |
| GE 12000 | 35.4                             | 41.2 | 41.9 | 42.2 | 43.7 | 43.2 | 43.2 | 43.2 | 43.2  | 43.2  | 43.2  | 43.2  | 43.2  | 43.2  | 43.2  | 43.2  |
| GE 10000 | 37.4                             | 43.9 | 44.6 | 44.9 | 46.1 | 46.1 | 46.1 | 46.1 | 46.1  | 46.1  | 46.1  | 46.1  | 46.1  | 46.1  | 46.1  | 46.1  |
| GE 9000  | 39.4                             | 45.2 | 45.9 | 46.2 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4  | 47.4  | 47.4  | 47.4  | 47.4  | 47.4  | 47.4  | 47.4  |
| GE 8000  | 38.5                             | 45.7 | 46.4 | 47.0 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  |
| GE 7000  | 39.6                             | 47.1 | 47.8 | 48.4 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6  | 49.6  | 49.6  | 49.6  | 49.6  | 49.6  | 49.6  | 49.6  |
| GE 6000  | 41.9                             | 50.3 | 51.1 | 51.7 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0  | 53.0  | 53.0  | 53.0  | 53.0  | 53.0  | 53.0  | 53.0  |
| GE 5000  | 49.0                             | 58.7 | 59.8 | 60.5 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9  | 61.9  | 61.9  | 61.9  | 61.9  | 61.9  | 61.9  | 61.9  |
| GE 4500  | 55.0                             | 67.0 | 68.2 | 68.9 | 70.9 | 70.9 | 71.0 | 71.1 | 71.1  | 71.1  | 71.1  | 71.1  | 71.1  | 71.1  | 71.1  | 71.1  |
| GE 4000  | 57.8                             | 70.0 | 71.3 | 72.3 | 74.4 | 74.4 | 74.5 | 74.6 | 74.6  | 74.6  | 74.6  | 74.6  | 74.6  | 74.6  | 74.6  | 74.6  |
| GE 3500  | 59.0                             | 71.3 | 72.7 | 73.7 | 76.1 | 76.1 | 76.2 | 76.3 | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  |
| GE 3000  | 60.7                             | 73.5 | 74.9 | 75.9 | 78.4 | 78.4 | 78.5 | 78.6 | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  | 78.6  |
| GE 2500  | 63.1                             | 76.8 | 78.5 | 79.5 | 82.1 | 82.1 | 82.3 | 82.4 | 82.4  | 82.4  | 82.4  | 82.4  | 82.4  | 82.4  | 82.4  | 82.4  |
| GE 2000  | 66.8                             | 81.1 | 83.1 | 84.3 | 87.0 | 87.0 | 87.1 | 87.3 | 87.3  | 87.3  | 87.3  | 87.3  | 87.3  | 87.3  | 87.3  | 87.3  |
| GE 1800  | 67.6                             | 82.1 | 84.3 | 85.5 | 88.2 | 88.2 | 88.4 | 88.6 | 88.6  | 88.6  | 88.6  | 88.6  | 88.6  | 88.6  | 88.6  | 88.6  |
| GE 1600  | 68.6                             | 83.7 | 86.0 | 87.2 | 90.0 | 90.0 | 90.4 | 90.6 | 90.6  | 90.6  | 90.6  | 90.6  | 90.6  | 90.6  | 90.6  | 90.6  |
| GE 1200  | 69.6                             | 85.6 | 88.2 | 89.6 | 92.6 | 92.6 | 93.0 | 93.2 | 93.2  | 93.2  | 93.2  | 93.2  | 93.2  | 93.2  | 93.2  | 93.2  |
| GE 1000  | 69.9                             | 86.7 | 89.3 | 90.8 | 93.9 | 93.9 | 94.3 | 94.6 | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  |
| GE 900   | 69.9                             | 86.7 | 89.6 | 91.1 | 94.6 | 94.6 | 94.9 | 95.3 | 95.3  | 95.3  | 95.3  | 95.3  | 95.3  | 95.3  | 95.3  | 95.3  |
| GE 800   | 70.0                             | 86.9 | 89.8 | 91.3 | 94.8 | 94.8 | 95.1 | 95.7 | 95.7  | 95.7  | 95.7  | 95.7  | 95.7  | 95.7  | 95.7  | 95.7  |
| GE 700   | 70.1                             | 87.6 | 90.6 | 92.1 | 95.6 | 95.6 | 95.9 | 96.4 | 96.4  | 96.4  | 96.4  | 96.4  | 96.4  | 96.4  | 96.4  | 96.4  |
| GE 600   | 70.5                             | 88.2 | 91.2 | 92.7 | 96.4 | 96.8 | 97.1 | 97.6 | 97.6  | 97.6  | 97.6  | 97.6  | 97.6  | 97.6  | 97.6  | 97.6  |
| GE 500   | 70.5                             | 88.3 | 91.3 | 93.1 | 96.9 | 97.2 | 97.6 | 98.2 | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  |
| GE 400   | 70.5                             | 88.4 | 91.7 | 93.4 | 97.3 | 97.6 | 98.1 | 98.6 | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  |
| GE 300   | 70.5                             | 88.5 | 91.8 | 93.9 | 99.3 | 98.6 | 99.1 | 99.9 | 99.9  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 200   | 70.5                             | 88.5 | 91.8 | 93.9 | 98.3 | 98.6 | 99.1 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   | 70.5                             | 88.5 | 91.8 | 93.9 | 98.3 | 98.6 | 99.1 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 0     | 70.5                             | 88.5 | 91.8 | 93.9 | 98.3 | 98.6 | 99.1 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 924

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 1800-2000

| CEILING<br>IN<br>FEET | ST   | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |      |      |
|-----------------------|------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|------|------|
|                       |      | GE<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GF<br>5 | GE<br>4 | GE<br>0 |      |      |      |
| NO CEIL               | 24.6 | 30.6                             | 31.8     | 32.4     | 32.6     | 33.0     | 33.0     | 33.2     | 33.2     | 33.2     | 33.2     | 33.2     | 33.2    | 33.2    | 33.2    | 33.2    | 33.2 | 33.2 | 33.2 |
| GE 200001             | 36.7 | 44.6                             | 46.1     | 46.9     | 47.1     | 47.4     | 47.4     | 47.7     | 47.7     | 47.7     | 47.7     | 47.7     | 47.7    | 47.7    | 47.7    | 47.7    | 47.7 | 47.7 | 47.7 |
| GE 180001             | 36.9 | 45.0                             | 46.5     | 47.3     | 47.5     | 47.8     | 47.8     | 48.2     | 48.2     | 48.2     | 48.2     | 48.2     | 48.2    | 48.2    | 48.2    | 48.2    | 48.2 | 48.2 | 48.2 |
| GE 160001             | 36.9 | 45.0                             | 46.5     | 47.3     | 47.5     | 47.8     | 47.8     | 48.2     | 48.2     | 48.2     | 48.2     | 48.2     | 48.2    | 48.2    | 48.2    | 48.2    | 48.2 | 48.2 | 48.2 |
| GE 140001             | 38.1 | 46.2                             | 47.7     | 48.5     | 48.7     | 49.0     | 49.0     | 49.3     | 49.3     | 49.3     | 49.3     | 49.3     | 49.3    | 49.3    | 49.3    | 49.3    | 49.3 | 49.3 | 49.3 |
| GE 120001             | 38.6 | 47.1                             | 48.5     | 49.5     | 49.7     | 50.0     | 50.0     | 50.3     | 50.3     | 50.3     | 50.3     | 50.3     | 50.3    | 50.3    | 50.3    | 50.3    | 50.3 | 50.3 | 50.3 |
| GE 100001             | 40.2 | 48.7                             | 50.2     | 51.2     | 51.4     | 51.7     | 51.7     | 52.1     | 52.1     | 52.1     | 52.1     | 52.1     | 52.1    | 52.1    | 52.1    | 52.1    | 52.1 | 52.1 | 52.1 |
| GE 90001              | 42.0 | 51.7                             | 53.3     | 54.3     | 54.6     | 54.9     | 54.9     | 55.2     | 55.2     | 55.2     | 55.2     | 55.2     | 55.2    | 55.2    | 55.2    | 55.2    | 55.2 | 55.2 | 55.2 |
| GE 80001              | 42.4 | 52.3                             | 53.9     | 55.0     | 55.3     | 55.6     | 55.6     | 56.0     | 56.0     | 56.0     | 56.0     | 56.0     | 56.0    | 56.0    | 56.0    | 56.0    | 56.0 | 56.0 | 56.0 |
| GE 70001              | 47.1 | 53.1                             | 54.9     | 56.2     | 56.6     | 56.9     | 56.9     | 57.3     | 57.3     | 57.3     | 57.3     | 57.3     | 57.3    | 57.3    | 57.3    | 57.3    | 57.3 | 57.3 | 57.3 |
| GE 60001              | 45.3 | 56.1                             | 57.9     | 59.3     | 60.0     | 60.3     | 60.6     | 60.6     | 60.6     | 60.6     | 60.6     | 60.6     | 60.6    | 60.6    | 60.6    | 60.6    | 60.6 | 60.6 | 60.6 |
| GE 50001              | 43.9 | 61.4                             | 63.2     | 64.6     | 65.4     | 65.7     | 65.9     | 66.5     | 66.6     | 66.6     | 66.6     | 66.6     | 66.6    | 66.6    | 66.6    | 66.6    | 66.6 | 66.6 | 66.6 |
| GE 45001              | 51.1 | 64.9                             | 66.7     | 68.2     | 69.2     | 69.5     | 69.8     | 70.4     | 70.5     | 70.5     | 70.5     | 70.5     | 70.5    | 70.5    | 70.5    | 70.5    | 70.5 | 70.5 | 70.5 |
| GE 40001              | 53.0 | 67.7                             | 69.5     | 71.0     | 72.1     | 72.5     | 72.8     | 73.3     | 73.4     | 73.4     | 73.4     | 73.4     | 73.4    | 73.4    | 73.4    | 73.4    | 73.4 | 73.4 | 73.4 |
| GE 35001              | 54.6 | 69.7                             | 71.6     | 73.2     | 74.3     | 74.6     | 74.9     | 75.5     | 75.6     | 75.6     | 75.6     | 75.6     | 75.6    | 75.6    | 75.6    | 75.6    | 75.6 | 75.6 | 75.6 |
| GE 30001              | 57.2 | 73.2                             | 75.2     | 76.8     | 78.2     | 78.5     | 79.0     | 79.5     | 79.6     | 79.6     | 79.6     | 79.6     | 79.6    | 79.6    | 79.6    | 79.6    | 79.6 | 79.6 | 79.6 |
| GE 25001              | 59.3 | 76.4                             | 79.3     | 79.9     | 81.6     | 81.9     | 82.3     | 83.2     | 83.3     | 83.3     | 83.3     | 83.3     | 83.3    | 83.3    | 83.3    | 83.3    | 83.3 | 83.3 | 83.3 |
| GE 20001              | 61.6 | 79.5                             | 81.8     | 83.5     | 85.4     | 86.0     | 86.4     | 87.3     | 87.4     | 87.4     | 87.4     | 87.4     | 87.4    | 87.4    | 87.4    | 87.4    | 87.4 | 87.4 | 87.4 |
| GE 18001              | 62.1 | 80.5                             | 82.9     | 84.7     | 86.6     | 87.2     | 87.6     | 88.5     | 88.6     | 88.6     | 88.6     | 88.6     | 88.6    | 88.6    | 88.6    | 88.6    | 88.6 | 88.6 | 88.6 |
| GE 15001              | 62.9 | 81.5                             | 83.9     | 85.8     | 87.6     | 88.3     | 88.7     | 89.7     | 89.8     | 89.8     | 89.8     | 89.8     | 89.8    | 89.8    | 89.8    | 89.8    | 89.8 | 89.8 | 89.8 |
| GE 12001              | 64.0 | 83.1                             | 85.9     | 87.7     | 89.7     | 90.3     | 90.8     | 92.0     | 92.1     | 92.1     | 92.1     | 92.1     | 92.1    | 92.1    | 92.1    | 92.1    | 92.1 | 92.1 | 92.1 |
| GE 10001              | 64.4 | 84.4                             | 87.3     | 89.3     | 91.3     | 92.0     | 92.5     | 93.7     | 93.8     | 93.8     | 93.8     | 93.8     | 93.8    | 93.8    | 93.8    | 93.8    | 93.8 | 93.8 | 93.8 |
| GE 90001              | 64.5 | 84.5                             | 87.4     | 89.4     | 91.4     | 92.1     | 92.6     | 93.8     | 93.9     | 93.9     | 93.9     | 93.9     | 93.9    | 93.9    | 93.9    | 93.9    | 93.9 | 93.9 | 93.9 |
| GE 80001              | 64.6 | 84.9                             | 88.0     | 89.9     | 92.0     | 92.6     | 93.2     | 94.4     | 94.5     | 94.5     | 94.5     | 94.5     | 94.5    | 94.5    | 94.5    | 94.5    | 94.5 | 94.5 | 94.5 |
| GE 70001              | 64.8 | 85.6                             | 88.5     | 90.6     | 92.4     | 93.5     | 94.3     | 95.7     | 95.8     | 95.8     | 95.8     | 95.8     | 95.8    | 95.8    | 95.8    | 95.8    | 95.8 | 95.8 | 95.8 |
| GE 60001              | 65.0 | 85.9                             | 88.9     | 91.0     | 93.4     | 94.0     | 94.8     | 96.3     | 96.4     | 96.4     | 96.4     | 96.4     | 96.4    | 96.4    | 96.4    | 96.4    | 96.4 | 96.4 | 96.4 |
| GE 50001              | 65.0 | 86.1                             | 89.3     | 91.4     | 93.8     | 94.5     | 95.2     | 96.7     | 96.9     | 96.9     | 96.9     | 96.9     | 96.9    | 96.9    | 96.9    | 96.9    | 96.9 | 96.9 | 96.9 |
| GE 40001              | 65.0 | 86.3                             | 89.6     | 91.8     | 94.3     | 95.0     | 95.8     | 97.3     | 97.4     | 97.4     | 97.4     | 97.4     | 97.4    | 97.4    | 97.4    | 97.4    | 97.4 | 97.4 | 97.4 |
| GE 30001              | 65.0 | 86.3                             | 89.6     | 91.9     | 94.9     | 95.2     | 96.1     | 97.3     | 98.9     | 99.0     | 99.1     | 99.2     | 99.3    | 99.3    | 99.3    | 99.3    | 99.3 | 99.3 | 99.3 |
| GE 20001              | 65.0 | 86.3                             | 89.6     | 91.9     | 95.1     | 95.9     | 96.9     | 98.4     | 98.5     | 98.5     | 98.5     | 98.5     | 98.5    | 98.5    | 98.5    | 98.5    | 98.5 | 98.5 | 98.5 |
| GE 10001              | 65.0 | 86.3                             | 89.6     | 91.9     | 95.2     | 96.1     | 97.3     | 98.9     | 99.0     | 99.1     | 99.2     | 99.3     | 99.3    | 99.3    | 99.3    | 99.3    | 99.3 | 99.3 | 99.3 |
| GE 0001               | 65.0 | 86.3                             | 89.6     | 91.9     | 95.2     | 96.1     | 97.3     | 98.9     | 99.0     | 99.1     | 99.2     | 99.3     | 99.3    | 99.3    | 99.3    | 99.3    | 99.3 | 99.3 | 99.3 |

TOTAL NUMBER OF OBSERVATIONS: 942

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): 2100-2300

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |  |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|--|
| IN       | FT   | GE 160                           | GE 90 | GE 80 | GE 60 | GE 44 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 0 |      |  |
| NO CESTL | 27.4 | 35.7                             | 37.6  | 40.6  | 41.6  | 42.0  | 42.3  | 43.3  | 43.4  | 43.4  | 43.4  | 43.4  | 43.4  | 43.4 | 43.4 | 43.4 | 43.4 | 43.4 |  |
| GE 20000 | 34.7 | 44.6                             | 46.9  | 50.5  | 51.7  | 52.2  | 52.5  | 53.5  | 53.6  | 53.6  | 53.6  | 53.6  | 53.6  | 53.6 | 53.6 | 53.6 | 53.6 | 53.6 |  |
| GE 18000 | 34.9 | 44.7                             | 47.0  | 50.6  | 51.8  | 52.3  | 52.6  | 53.6  | 53.7  | 53.7  | 53.7  | 53.7  | 53.7  | 53.7 | 53.7 | 53.7 | 53.7 | 53.7 |  |
| GE 16000 | 34.8 | 44.7                             | 47.0  | 50.6  | 51.7  | 52.3  | 52.6  | 53.6  | 53.7  | 53.7  | 53.7  | 53.7  | 53.7  | 53.7 | 53.7 | 53.7 | 53.7 | 53.7 |  |
| GE 14000 | 35.2 | 45.1                             | 47.4  | 51.1  | 52.7  | 52.7  | 53.0  | 54.0  | 54.1  | 54.1  | 54.1  | 54.1  | 54.1  | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 |  |
| GE 12000 | 36.0 | 46.2                             | 48.5  | 52.2  | 53.3  | 53.9  | 54.2  | 55.2  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3  | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 |  |
| GE 10000 | 36.9 | 47.9                             | 50.3  | 54.0  | 55.4  | 56.0  | 56.4  | 57.3  | 57.5  | 57.5  | 57.5  | 57.5  | 57.5  | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 |  |
| GE 9000  | 37.8 | 49.9                             | 52.4  | 56.3  | 57.0  | 58.5  | 59.0  | 59.9  | 60.0  | 60.0  | 60.0  | 60.0  | 60.0  | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 |  |
| GE 8000  | 37.9 | 50.3                             | 52.8  | 56.7  | 58.3  | 59.0  | 59.4  | 60.4  | 60.5  | 60.5  | 60.5  | 60.5  | 60.5  | 60.5 | 60.5 | 60.5 | 60.5 | 60.5 |  |
| GE 7000  | 37.9 | 50.6                             | 53.0  | 56.9  | 58.5  | 59.2  | 59.6  | 60.6  | 60.7  | 60.7  | 60.7  | 60.7  | 60.7  | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 |  |
| GE 6000  | 39.1 | 51.8                             | 54.5  | 58.4  | 60.0  | 60.8  | 61.2  | 62.3  | 62.4  | 62.4  | 62.4  | 62.4  | 62.4  | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 |  |
| GE 5000  | 40.2 | 54.2                             | 57.3  | 61.3  | 63.2  | 64.1  | 64.7  | 65.8  | 65.9  | 66.1  | 66.1  | 66.1  | 66.1  | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 |  |
| GE 4500  | 41.1 | 56.0                             | 59.4  | 63.6  | 65.7  | 66.6  | 67.2  | 68.4  | 68.7  | 68.9  | 68.9  | 68.9  | 68.9  | 68.9 | 68.9 | 68.9 | 68.9 | 68.9 |  |
| GE 4000  | 47.2 | 58.3                             | 61.9  | 66.2  | 68.3  | 69.2  | 69.8  | 71.0  | 71.3  | 71.5  | 71.5  | 71.5  | 71.5  | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 |  |
| GE 3500  | 44.2 | 60.0                             | 63.7  | 68.3  | 70.3  | 71.3  | 71.9  | 73.2  | 73.5  | 73.8  | 73.8  | 73.8  | 73.8  | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 |  |
| GE 3000  | 45.7 | 63.1                             | 66.7  | 71.5  | 73.9  | 74.9  | 75.7  | 77.0  | 77.3  | 77.5  | 77.5  | 77.5  | 77.5  | 77.5 | 77.5 | 77.5 | 77.5 | 77.5 |  |
| GE 2500  | 47.5 | 66.0                             | 69.9  | 74.9  | 77.3  | 78.4  | 79.2  | 80.5  | 80.8  | 81.0  | 81.0  | 81.0  | 81.0  | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 |  |
| GE 21000 | 47.9 | 67.1                             | 71.0  | 76.3  | 79.0  | 80.2  | 81.0  | 82.7  | 83.3  | 83.5  | 83.5  | 83.5  | 83.5  | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 |  |
| GE 18000 | 48.3 | 67.5                             | 71.5  | 77.0  | 79.7  | 80.9  | 81.6  | 83.5  | 84.0  | 84.2  | 84.2  | 84.2  | 84.2  | 84.2 | 84.2 | 84.2 | 84.2 | 84.2 |  |
| GE 15000 | 49.5 | 69.2                             | 73.2  | 78.7  | 81.4  | 82.6  | 83.4  | 85.4  | 86.0  | 86.2  | 86.2  | 86.2  | 86.2  | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 |  |
| GE 12000 | 50.3 | 70.7                             | 74.7  | 80.5  | 83.3  | 84.6  | 85.3  | 87.5  | 88.0  | 88.2  | 88.2  | 88.2  | 88.2  | 88.2 | 88.2 | 88.2 | 88.2 | 88.2 |  |
| GE 10000 | 51.0 | 71.5                             | 75.0  | 81.9  | 84.8  | 86.1  | 86.8  | 88.0  | 88.5  | 89.7  | 89.7  | 89.7  | 89.7  | 89.7 | 89.7 | 89.7 | 89.7 | 89.7 |  |
| GE 9000  | 51.0 | 71.6                             | 76.6  | 82.6  | 85.5  | 86.8  | 87.6  | 89.7  | 90.3  | 90.5  | 90.5  | 90.5  | 90.5  | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 |  |
| GE 8000  | 51.1 | 72.4                             | 77.3  | 83.5  | 86.4  | 87.7  | 88.4  | 90.7  | 91.4  | 91.6  | 91.6  | 91.6  | 91.6  | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 |  |
| GE 7000  | 51.3 | 72.6                             | 77.8  | 84.3  | 87.5  | 88.9  | 89.6  | 92.0  | 92.7  | 92.9  | 92.9  | 92.9  | 92.9  | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 |  |
| GE 6000  | 51.3 | 73.0                             | 78.3  | 95.0  | 88.7  | 99.6  | 90.6  | 93.2  | 93.8  | 94.2  | 94.2  | 94.2  | 94.2  | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 |  |
| GE 5000  | 51.3 | 73.2                             | 78.7  | 85.9  | 89.1  | 90.5  | 91.5  | 94.2  | 94.8  | 95.1  | 95.1  | 95.1  | 95.1  | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 |  |
| GE 4000  | 51.3 | 73.3                             | 78.9  | 86.1  | 89.4  | 90.8  | 91.8  | 94.6  | 95.4  | 95.9  | 95.9  | 95.9  | 95.9  | 95.9 | 95.9 | 95.9 | 95.9 | 95.9 |  |
| GE 3000  | 51.3 | 73.5                             | 79.3  | 86.8  | 90.6  | 92.0  | 93.1  | 95.9  | 96.7  | 97.2  | 97.2  | 97.2  | 97.2  | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 |  |
| GE 2000  | 51.3 | 73.5                             | 79.5  | 87.0  | 91.0  | 92.4  | 93.5  | 96.4  | 97.3  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 |  |
| GE 1000  | 51.3 | 73.7                             | 79.6  | 87.1  | 91.3  | 92.8  | 93.8  | 97.1  | 98.1  | 98.9  | 98.9  | 98.9  | 98.9  | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 |  |
| GE 0     | 51.3 | 73.7                             | 79.6  | 87.1  | 91.3  | 92.8  | 93.8  | 97.1  | 98.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 |  |

TOTAL NUMBER OF OBSERVATIONS: 926

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIRILTY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
MONTH: MAY HOURS(LST): ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>30 | GE<br>24 | GE<br>20 | GE<br>16 | GL<br>12 | GF<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |
| NO CEIL               | 19.0                             | 25.2     | 26.2     | 27.8     | 28.0     | 29.4     | 29.7     | 30.3     | 30.4     | 30.6     | 30.7     | 30.7    | 30.8    | 30.9    | 31.0    | 31.3 |
| GE 20000              | 27.4                             | 35.4     | 36.8     | 38.8     | 40.1     | 40.6     | 41.0     | 41.7     | 41.9     | 42.1     | 42.2     | 42.2    | 42.3    | 42.5    | 42.6    | 42.9 |
| GE 18000              | 27.5                             | 35.5     | 37.0     | 39.0     | 40.2     | 40.8     | 41.1     | 41.9     | 42.0     | 42.2     | 42.3     | 42.3    | 42.5    | 42.6    | 42.7    | 43.1 |
| GE 16000              | 27.5                             | 35.5     | 37.0     | 39.0     | 40.2     | 40.8     | 41.2     | 41.9     | 42.0     | 42.3     | 42.3     | 42.3    | 42.5    | 42.6    | 42.7    | 43.1 |
| GE 14000              | 28.1                             | 36.2     | 37.7     | 39.7     | 41.0     | 41.5     | 41.9     | 42.6     | 42.8     | 43.0     | 43.1     | 43.2    | 43.4    | 43.5    | 43.9    |      |
| GE 12000              | 28.8                             | 37.1     | 38.6     | 40.7     | 41.9     | 42.5     | 42.9     | 43.7     | 43.8     | 44.1     | 44.1     | 44.1    | 44.3    | 44.5    | 44.9    |      |
| GE 10000              | 30.1                             | 38.9     | 40.5     | 42.7     | 44.0     | 44.7     | 45.2     | 46.0     | 46.2     | 46.5     | 46.5     | 46.5    | 46.7    | 46.9    | 47.0    | 47.4 |
| GE 9000               | 31.2                             | 40.7     | 42.4     | 44.6     | 46.1     | 46.9     | 47.4     | 48.3     | 48.4     | 48.7     | 48.7     | 48.7    | 48.9    | 49.1    | 49.2    | 49.6 |
| GE 8000               | 31.3                             | 41.0     | 42.7     | 45.0     | 46.6     | 47.4     | 47.9     | 48.8     | 49.0     | 49.2     | 49.3     | 49.3    | 49.5    | 49.6    | 49.7    | 50.1 |
| GE 7200               | 31.7                             | 41.6     | 43.3     | 45.7     | 47.3     | 48.1     | 48.6     | 49.5     | 49.6     | 49.9     | 50.0     | 50.0    | 50.1    | 50.3    | 50.4    | 50.8 |
| GE 6000               | 32.9                             | 43.4     | 45.2     | 47.7     | 49.4     | 50.2     | 50.8     | 51.7     | 51.9     | 52.2     | 52.3     | 52.3    | 52.4    | 52.6    | 52.7    | 53.1 |
| GE 5000               | 35.8                             | 47.6     | 49.6     | 52.2     | 54.1     | 55.1     | 55.8     | 56.9     | 57.2     | 57.5     | 57.6     | 57.6    | 57.7    | 57.9    | 58.0    | 58.4 |
| GE 4500               | 38.5                             | 51.2     | 53.3     | 56.1     | 58.2     | 59.3     | 60.1     | 61.3     | 61.6     | 61.9     | 62.0     | 62.0    | 62.2    | 62.4    | 62.5    | 62.9 |
| GE 4000               | 40.2                             | 53.5     | 55.7     | 58.7     | 60.9     | 62.0     | 62.8     | 64.0     | 64.8     | 64.9     | 65.0     | 65.2    | 65.3    | 65.7    |         |      |
| GE 3500               | 41.5                             | 55.1     | 57.3     | 60.4     | 62.7     | 63.8     | 64.6     | 65.9     | 66.3     | 66.7     | 66.8     | 66.8    | 66.9    | 67.1    | 67.2    | 67.6 |
| GE 3000               | 43.2                             | 57.5     | 59.9     | 63.1     | 65.5     | 66.7     | 67.5     | 68.9     | 69.3     | 69.6     | 69.7     | 69.7    | 69.9    | 70.1    | 70.2    | 70.6 |
| GE 2500               | 45.3                             | 60.5     | 63.0     | 66.5     | 69.0     | 70.2     | 71.1     | 72.6     | 73.0     | 73.3     | 73.4     | 73.4    | 73.6    | 73.8    | 73.9    | 74.3 |
| GE 2700               | 47.5                             | 63.4     | 66.1     | 69.7     | 72.4     | 73.7     | 74.6     | 76.2     | 76.7     | 77.1     | 77.2     | 77.2    | 77.3    | 77.5    | 77.6    | 78.0 |
| GE 1800               | 48.6                             | 64.9     | 67.7     | 71.4     | 74.1     | 75.4     | 76.3     | 78.0     | 78.4     | 78.8     | 79.0     | 79.1    | 79.3    | 79.4    | 79.8    |      |
| GE 1500               | 50.0                             | 67.0     | 70.0     | 73.8     | 76.7     | 78.0     | 79.0     | 80.7     | 81.2     | 81.6     | 81.7     | 81.7    | 81.9    | P2.1    | 82.2    | 82.6 |
| GE 1200               | 51.5                             | 69.5     | 72.7     | 76.8     | 79.9     | 81.3     | 82.3     | 84.1     | 84.6     | 85.0     | 85.2     | 85.2    | 85.4    | 85.6    | 85.7    | 86.1 |
| GE 1000               | 52.1                             | 70.7     | 74.0     | 78.5     | 81.8     | 83.2     | 84.3     | 86.1     | 86.6     | 87.0     | 87.2     | 87.2    | 87.4    | 87.6    | 87.7    | 88.1 |
| GE 900                | 52.3                             | 71.1     | 74.7     | 79.2     | 82.6     | 84.0     | 85.1     | 87.0     | 87.4     | 87.9     | 88.0     | 88.1    | 88.3    | 88.5    | 88.6    | 89.0 |
| GE 800                | 52.5                             | 71.7     | 75.4     | 80.1     | 83.6     | 85.0     | 86.2     | 88.1     | 88.6     | 89.1     | 89.2     | 89.2    | 89.5    | 89.6    | 89.7    | 90.1 |
| GE 700                | 52.7                             | 72.5     | 76.2     | 81.2     | 84.9     | 86.4     | 87.6     | 89.6     | 90.1     | 90.6     | 90.8     | 90.8    | 91.0    | 91.2    | 91.3    | 91.7 |
| GF 600                | 52.9                             | 73.1     | 76.9     | 82.1     | 86.0     | 87.6     | 88.9     | 91.0     | 91.6     | 92.2     | 92.3     | 92.3    | 92.5    | 92.7    | 92.8    | 93.2 |
| GE 500                | 53.0                             | 73.4     | 77.3     | 82.7     | 86.7     | 88.3     | 89.7     | 91.9     | 92.5     | 93.1     | 93.2     | 93.3    | 93.5    | 93.7    | 93.8    | 94.2 |
| GF 400                | 53.1                             | 73.6     | 77.5     | 83.3     | 87.6     | 89.3     | 90.9     | 93.2     | 93.8     | 94.5     | 94.6     | 94.7    | 94.9    | 95.1    | 95.2    | 95.6 |
| GE 300                | 53.1                             | 73.9     | 78.1     | 85.8     | 88.7     | 90.1     | 91.7     | 94.2     | 95.0     | 95.6     | 95.8     | 95.9    | 96.1    | 96.3    | 96.4    | 96.8 |
| GF 200                | 53.1                             | 74.0     | 78.1     | 84.0     | 88.6     | 90.6     | 92.2     | 94.9     | 95.8     | 96.4     | 96.7     | 96.8    | 97.0    | 97.2    | 97.3    | 97.7 |
| GF 100                | 53.1                             | 74.0     | 78.2     | 84.0     | 88.8     | 90.8     | 92.5     | 95.3     | 96.3     | 97.1     | 97.4     | 97.6    | 97.8    | 98.1    | 98.2    | 98.7 |
| GF 0                  | 53.1                             | 74.0     | 78.2     | 84.0     | 88.8     | 90.8     | 92.5     | 95.3     | 96.3     | 97.1     | 97.4     | 97.6    | 97.8    | 98.1    | 98.2    | 98.7 |

TOTAL NUMBER OF OBSERVATIONS: 7390

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-85  
MONTH: JUN HOURS(LST): 0000-0200

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>96 | GE<br>80 | GE<br>60 | GE<br>44 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GF<br>0 |
| NO CEIL               | 21.4                             | 27.6     | 29.6     | 33.1     | 35.3     | 36.7     | 37.1     | 37.9     | 38.2     | 38.5     | 38.6     | 38.7     | 38.8    | 39.0    | 39.1    | 39.4    |
| GE 20000              | 25.7                             | 33.6     | 36.2     | 40.2     | 42.5     | 46.1     | 44.5     | 45.7     | 46.1     | 46.3     | 46.4     | 46.6     | 46.9    | 47.2    | 47.3    | 47.6    |
| GE 18000              | 25.7                             | 33.6     | 36.2     | 40.2     | 42.5     | 46.1     | 44.5     | 45.7     | 46.1     | 46.3     | 46.4     | 46.6     | 46.8    | 47.2    | 47.3    | 47.6    |
| GE 16000              | 25.7                             | 33.6     | 36.2     | 40.2     | 42.5     | 44.1     | 44.5     | 45.7     | 46.1     | 46.3     | 46.4     | 46.6     | 46.8    | 47.2    | 47.3    | 47.6    |
| GE 14000              | 26.1                             | 33.9     | 36.4     | 40.5     | 42.9     | 44.5     | 44.8     | 46.1     | 46.4     | 46.6     | 46.8     | 47.0     | 47.1    | 47.6    | 47.7    | 47.9    |
| GE 12000              | 26.5                             | 34.9     | 37.8     | 41.8     | 44.1     | 45.7     | 46.1     | 47.4     | 47.8     | 48.0     | 48.1     | 48.4     | 48.5    | 48.9    | 49.0    | 49.3    |
| GE 10000              | 28.4                             | 37.4     | 40.4     | 44.5     | 47.2     | 48.8     | 49.1     | 50.5     | 51.0     | 51.2     | 51.5     | 51.6     | 52.1    | 52.2    | 52.4    | 52.4    |
| GE 9000               | 29.6                             | 39.7     | 42.7     | 47.1     | 49.9     | 51.9     | 53.2     | 53.9     | 54.2     | 54.3     | 54.5     | 54.6     | 55.1    | 55.2    | 55.4    | 55.4    |
| GE 8000               | 30.4                             | 40.7     | 47.7     | 48.2     | 51.1     | 52.8     | 53.1     | 54.5     | 55.2     | 55.4     | 55.5     | 55.7     | 55.9    | 56.3    | 56.4    | 56.7    |
| GE 7000               | 30.6                             | 41.0     | 43.9     | 48.5     | 51.1     | 53.0     | 53.4     | 54.8     | 55.5     | 55.7     | 55.9     | 56.1     | 56.2    | 56.7    | 56.8    | 57.0    |
| GE 6000               | 31.6                             | 42.9     | 46.0     | 50.5     | 53.5     | 55.2     | 57.1     | 57.8     | 58.0     | 58.1     | 58.4     | 58.5     | 58.9    | 59.0    | 59.3    | 59.3    |
| GE 5000               | 33.6                             | 46.3     | 49.5     | 54.5     | 57.5     | 59.2     | 59.5     | 61.1     | 61.8     | 62.0     | 62.1     | 62.3     | 62.5    | 62.9    | 63.0    | 63.3    |
| GE 4500               | 34.7                             | 47.7     | 51.1     | 56.1     | 59.0     | 60.8     | 61.1     | 62.7     | 63.5     | 63.7     | 63.8     | 64.1     | 64.2    | 64.6    | 64.7    | 65.0    |
| GE 4000               | 35.7                             | 49.8     | 53.2     | 58.4     | 61.1     | 63.0     | 63.4     | 65.1     | 65.9     | 66.1     | 66.2     | 66.4     | 66.6    | 67.0    | 67.1    | 67.3    |
| GE 3500               | 36.7                             | 51.4     | 54.6     | 60.0     | 62.9     | 64.6     | 65.0     | 66.7     | 67.5     | 67.7     | 67.8     | 68.0     | 68.1    | 68.6    | 68.7    | 68.9    |
| GE 3000               | 36.6                             | 54.3     | 58.0     | 63.5     | 66.7     | 68.4     | 68.7     | 70.4     | 71.2     | 71.4     | 71.6     | 71.8     | 71.9    | 72.4    | 72.5    | 72.7    |
| GE 2500               | 39.5                             | 55.5     | 59.5     | 65.2     | 68.6     | 70.3     | 70.6     | 72.5     | 73.3     | 73.5     | 73.6     | 73.8     | 73.9    | 74.4    | 74.5    | 74.7    |
| GE 2000               | 39.9                             | 57.3     | 61.5     | 67.5     | 70.9     | 72.7     | 73.3     | 75.1     | 75.9     | 76.1     | 76.2     | 76.5     | 76.6    | 77.0    | 77.1    | 77.4    |
| GE 1800               | 47.3                             | 58.1     | 62.5     | 68.4     | 71.9     | 73.7     | 74.3     | 76.2     | 77.0     | 77.2     | 77.4     | 77.6     | 77.7    | 78.2    | 78.3    | 78.5    |
| GE 1700               | 47.4                             | 59.8     | 63.1     | 69.3     | 73.2     | 75.0     | 75.5     | 77.5     | 78.3     | 79.6     | 79.8     | 79.9     | 79.9    | 79.9    | 79.9    | 79.7    |
| GE 1700               | 41.4                             | 61.2     | 65.1     | 71.8     | 75.7     | 77.5     | 78.3     | 80.4     | 81.3     | 81.6     | 81.7     | 82.0     | 82.1    | 82.6    | 82.7    | 82.9    |
| GE 1600               | 42.7                             | 62.9     | 67.3     | 73.7     | 77.6     | 79.5     | 80.4     | 82.7     | 83.6     | 83.8     | 84.0     | 84.3     | 84.4    | 84.9    | 85.0    | 85.2    |
| GE 900                | 42.9                             | 63.4     | 67.9     | 74.4     | 78.3     | 80.2     | 81.2     | 83.5     | 84.4     | 84.6     | 84.8     | 85.1     | 85.2    | 85.7    | 85.8    | 86.0    |
| GE 800                | 42.9                             | 63.7     | 68.3     | 75.0     | 78.8     | 80.8     | 81.8     | 84.2     | 85.1     | 85.3     | 85.4     | 85.8     | 85.9    | 86.3    | 86.5    | 86.7    |
| GE 700                | 43.0                             | 64.6     | 69.5     | 76.3     | 80.2     | 82.1     | 83.3     | 85.9     | 86.8     | 87.0     | 87.1     | 87.5     | 87.6    | 88.1    | 88.2    | 88.4    |
| GE 600                | 47.3                             | 65.4     | 70.3     | 77.4     | 81.7     | 83.3     | 84.4     | 87.0     | 87.9     | 88.2     | 88.3     | 88.6     | 88.7    | 89.2    | 89.3    | 89.5    |
| GE 500                | 43.3                             | 65.8     | 70.6     | 78.0     | 82.0     | 84.4     | 85.8     | 88.5     | 89.4     | 89.6     | 89.8     | 90.1     | 90.2    | 90.7    | 90.8    | 91.0    |
| GE 400                | 43.3                             | 66.4     | 71.1     | 78.6     | 83.4     | 86.1     | 87.7     | 90.6     | 91.5     | 91.7     | 91.8     | 92.2     | 92.3    | 92.7    | 92.8    | 93.1    |
| GE 300                | 43.3                             | 66.2     | 71.3     | 79.0     | 83.8     | 86.6     | 88.2     | 91.2     | 92.5     | 92.8     | 93.2     | 93.3     | 93.4    | 93.9    | 94.0    | 94.2    |
| GE 200                | 43.3                             | 66.6     | 71.7     | 79.4     | 84.4     | 87.1     | 88.7     | 91.8     | 93.2     | 93.6     | 93.7     | 94.1     | 94.2    | 94.7    | 94.8    | 95.0    |
| GE 100                | 43.3                             | 66.6     | 71.9     | 80.0     | 85.0     | 87.9     | 89.5     | 93.1     | 94.4     | 95.1     | 95.7     | 95.9     | 96.9    | 97.3    | 98.3    | 98.3    |
| GE 0                  | 43.3                             | 66.6     | 71.9     | 80.0     | 85.0     | 87.9     | 89.5     | 93.2     | 94.5     | 95.4     | 95.7     | 96.0     | 96.2    | 97.8    | 98.4    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 879

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037467 STATION NAME: BUSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0300-0500

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |                |                |                |                |                |                |               |              |              |              |      |      |      |      |       |
|-----------------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|--------------|--------------|--------------|------|------|------|------|-------|
|                       | GT<br>100<br>90                  | GE<br>80<br>70 | GT<br>60<br>50 | GE<br>40<br>30 | GT<br>32<br>24 | GE<br>20<br>16 | GT<br>16<br>12 | GE<br>10<br>8 | GT<br>8<br>5 | GE<br>4<br>3 | GT<br>0<br>0 |      |      |      |      |       |
| NO CEIL               | 14.3                             | 18.5           | 19.7           | 22.0           | 23.4           | 24.0           | 26.4           | 28.5          | 28.9         | 29.4         | 29.9         | 30.2 | 30.6 | 32.7 | 34.6 |       |
| GE 20000              | 19.8                             | 26.0           | 27.6           | 30.7           | 32.5           | 34.4           | 36.1           | 38.6          | 39.1         | 39.9         | 40.1         | 40.5 | 40.9 | 41.3 | 41.4 | 42.5  |
| GE 18000              | 19.8                             | 26.0           | 27.6           | 30.7           | 32.5           | 34.4           | 36.1           | 38.6          | 39.1         | 39.9         | 40.1         | 40.5 | 40.9 | 41.3 | 41.4 | 42.9  |
| GE 16000              | 19.9                             | 26.0           | 27.6           | 30.7           | 32.5           | 34.4           | 36.1           | 38.6          | 39.1         | 39.9         | 40.1         | 40.5 | 40.9 | 41.3 | 41.4 | 42.9  |
| GE 14000              | 20.0                             | 26.4           | 28.0           | 31.0           | 32.0           | 34.8           | 36.5           | 39.0          | 39.4         | 40.2         | 40.4         | 40.9 | 41.2 | 41.7 | 41.8 | 43.3  |
| GE 12000              | 20.2                             | 26.7           | 28.4           | 31.6           | 33.4           | 35.3           | 37.1           | 39.6          | 40.1         | 40.9         | 41.1         | 41.6 | 41.9 | 42.5 | 42.6 | 44.1  |
| GE 10000              | 21.9                             | 29.6           | 30.7           | 34.0           | 36.0           | 37.9           | 39.9           | 42.5          | 42.9         | 43.8         | 44.1         | 44.6 | 45.0 | 45.5 | 45.6 | 47.1  |
| GE 9000               | 22.9                             | 30.8           | 32.6           | 35.9           | 38.1           | 40.0           | 42.0           | 45.1          | 45.5         | 46.4         | 46.7         | 47.6 | 48.1 | 48.2 | 49.7 |       |
| GE 8000               | 23.1                             | 31.3           | 33.1           | 36.4           | 39.5           | 40.4           | 42.5           | 45.5          | 46.0         | 46.9         | 47.1         | 47.7 | 48.0 | 48.6 | 48.7 | 50.2  |
| GE 7000               | 23.3                             | 31.5           | 35.3           | 36.6           | 38.7           | 40.7           | 42.7           | 45.9          | 46.8         | 47.3         | 47.6         | 48.1 | 48.5 | 49.0 | 49.2 | 50.0  |
| GE 6000               | 24.0                             | 32.6           | 34.4           | 37.8           | 40.1           | 42.1           | 44.2           | 47.5          | 48.0         | 48.9         | 49.2         | 49.7 | 50.1 | 50.6 | 51.7 | 52.1  |
| GE 5000               | 25.8                             | 35.0           | 37.0           | 40.6           | 43.6           | 45.5           | 47.6           | 51.0          | 51.5         | 52.4         | 52.7         | 52.2 | 53.6 | 54.1 | 54.2 | 55.7  |
| GE 4500               | 27.5                             | 36.7           | 38.7           | 42.5           | 45.2           | 47.2           | 49.3           | 52.7          | 53.2         | 54.1         | 54.9         | 55.3 | 55.8 | 55.9 | 57.8 |       |
| GE 4000               | 28.1                             | 40.1           | 44.1           | 46.8           | 48.8           | 50.8           | 54.2           | 54.9          | 55.8         | 56.1         | 56.6         | 57.0 | 57.5 | 57.6 | 59.1 |       |
| GE 3500               | 29.2                             | 39.0           | 41.1           | 45.1           | 47.8           | 49.8           | 51.9           | 55.4          | 56.1         | 57.0         | 57.2         | 57.8 | 58.2 | 58.8 | 59.9 | 60.4  |
| GE 3000               | 31.3                             | 42.1           | 44.6           | 49.0           | 51.9           | 54.4           | 56.5           | 60.0          | 60.7         | 61.6         | 62.4         | 62.9 | 63.4 | 63.5 | 65.0 |       |
| GE 2500               | 33.1                             | 44.8           | 47.5           | 51.9           | 54.7           | 57.2           | 59.3           | 62.9          | 63.5         | 64.4         | 64.7         | 65.2 | 65.7 | 66.3 | 66.4 | 67.8  |
| GE 2000               | 34.0                             | 47.2           | 49.9           | 54.5           | 57.3           | 59.9           | 62.1           | 65.6          | 66.4         | 67.3         | 67.5         | 68.1 | 69.5 | 69.1 | 69.2 | 70.7  |
| GE 1800               | 34.4                             | 48.4           | 51.3           | 55.8           | 58.8           | 61.4           | 63.5           | 67.0          | 67.8         | 68.7         | 69.0         | 69.5 | 70.0 | 70.6 | 71.7 | 72.1  |
| GE 1500               | 35.1                             | 49.8           | 53.2           | 57.9           | 60.8           | 63.4           | 65.6           | 69.1          | 69.9         | 70.8         | 71.0         | 71.6 | 72.0 | 72.6 | 72.7 | 74.2  |
| GE 1200               | 36.5                             | 52.4           | 56.8           | 60.7           | 63.9           | 66.6           | 69.0           | 72.6          | 73.4         | 74.3         | 75.1         | 75.5 | 76.1 | 76.2 | 77.7 |       |
| GE 1000               | 37.3                             | 54.0           | 57.8           | 62.9           | 66.3           | 69.1           | 71.6           | 75.3          | 76.1         | 77.0         | 77.2         | 77.8 | 78.3 | 78.8 | 79.9 | 80.4  |
| GE 900                | 37.6                             | 54.9           | 58.9           | 63.9           | 67.3           | 70.1           | 72.7           | 76.4          | 77.2         | 78.1         | 78.6         | 79.4 | 80.0 | 80.1 | 81.5 |       |
| GE 800                | 37.7                             | 55.3           | 59.2           | 64.6           | 68.1           | 71.0           | 73.6           | 77.5          | 78.3         | 79.2         | 79.4         | 80.0 | 80.4 | 81.0 | 81.1 | 82.6  |
| GE 700                | 38.3                             | 56.4           | 60.4           | 65.7           | 69.4           | 72.4           | 75.1           | 78.9          | 79.8         | 80.7         | 81.0         | 81.5 | 82.0 | 82.6 | 82.7 | 84.1  |
| GE 600                | 38.5                             | 57.2           | 61.4           | 66.9           | 70.7           | 73.6           | 76.4           | 80.4          | 81.3         | 82.2         | 82.9         | 83.6 | 83.5 | 84.0 | 84.1 | 85.6  |
| GE 500                | 58.7                             | 57.4           | 61.6           | 67.4           | 71.1           | 74.5           | 77.5           | 81.5          | 82.6         | 83.5         | 83.7         | 84.3 | 84.7 | 85.3 | 85.4 | 86.9  |
| GE 400                | 57.6                             | 61.6           | 68.4           | 72.4           | 76.0           | 79.9           | 83.5           | 84.7          | 85.6         | 85.9         | 86.4         | 86.9 | 87.4 | 87.5 | 89.0 |       |
| GE 300                | 58.8                             | 57.6           | 61.9           | 68.5           | 73.7           | 77.0           | 80.2           | 85.1          | 86.3         | 87.2         | 87.4         | 88.0 | 88.4 | 89.0 | 89.1 | 90.6  |
| GE 200                | 57.9                             | 67.1           | 68.7           | 74.1           | 77.7           | 81.1           | 86.6           | 88.0          | 89.0         | 89.9         | 90.4         | 90.9 | 91.1 | 91.1 | 92.5 |       |
| GE 100                | 58.8                             | 57.9           | 62.1           | 69.2           | 74.7           | 78.5           | 82.0           | 87.6          | 89.4         | 90.7         | 91.2         | 92.0 | 92.5 | 93.8 | 93.7 | 95.7  |
| GE 0                  | 58.8                             | 57.9           | 67.1           | 69.2           | 74.7           | 78.6           | 82.2           | 88.0          | 89.6         | 91.2         | 92.1         | 92.9 | 93.8 | 95.2 | 95.8 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 1833

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037467 STATION NAME: 90SCOMPE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LIST): 0600-0800

| CEILING  | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |   |
|----------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---|
|          | IN                               | GT   | GE   | GE   | GE   | GE   | GE    |   |
| FEET     | 160                              | 90   | 80   | 60   | 40   | 30   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 3    | 2    | 1     | 0 |
| NO CEIL  | 13.7                             | 16.3 | 18.9 | 20.5 | 22.1 | 23.2 | 24.2 | 25.4 | 25.7 | 25.8 | 26.0 | 26.0 | 26.5 | 26.6 | 26.6 | 26.8  |   |
| GE 20000 | 19.6                             | 26.7 | 27.6 | 30.0 | 32.4 | 33.7 | 35.1 | 36.5 | 36.8 | 37.0 | 37.4 | 37.4 | 37.8 | 38.1 | 38.1 | 38.3  |   |
| GE 18000 | 19.7                             | 27.0 | 27.9 | 30.2 | 32.6 | 34.0 | 35.3 | 36.7 | 37.0 | 37.3 | 37.6 | 38.1 | 38.3 | 38.3 | 38.5 |       |   |
| GE 16000 | 19.7                             | 27.0 | 27.9 | 30.2 | 32.6 | 34.0 | 35.3 | 36.7 | 37.0 | 37.3 | 37.6 | 38.1 | 38.3 | 38.3 | 38.5 |       |   |
| GE 14000 | 20.0                             | 28.0 | 28.9 | 31.3 | 33.6 | 35.0 | 36.4 | 37.7 | 38.1 | 38.3 | 38.6 | 38.6 | 39.1 | 39.3 | 39.3 | 39.5  |   |
| GE 12000 | 20.4                             | 28.6 | 29.7 | 32.0 | 34.4 | 35.8 | 37.1 | 38.7 | 39.1 | 39.3 | 39.6 | 39.6 | 40.1 | 40.3 | 40.3 | 40.5  |   |
| GE 10000 | 22.8                             | 31.5 | 32.5 | 35.2 | 36.9 | 39.6 | 41.0 | 42.6 | 42.9 | 43.3 | 43.6 | 44.1 | 44.3 | 44.3 | 44.5 |       |   |
| GE 9000  | 23.6                             | 32.8 | 33.9 | 36.8 | 40.1 | 41.7 | 42.1 | 44.7 | 45.1 | 45.4 | 45.8 | 46.2 | 46.4 | 46.4 | 46.7 |       |   |
| GE 8000  | 23.7                             | 33.2 | 34.2 | 37.3 | 40.5 | 42.1 | 43.6 | 45.2 | 45.5 | 45.9 | 46.2 | 46.7 | 46.9 | 46.9 | 47.1 |       |   |
| GE 7000  | 24.0                             | 33.6 | 34.7 | 37.7 | 41.1 | 42.7 | 44.2 | 45.8 | 46.1 | 46.4 | 46.7 | 47.2 | 47.5 | 47.5 | 47.7 |       |   |
| GE 6000  | 25.1                             | 34.8 | 36.0 | 39.1 | 42.4 | 44.1 | 45.5 | 47.1 | 47.6 | 47.9 | 48.2 | 48.7 | 48.9 | 49.0 | 49.2 |       |   |
| GE 5000  | 25.9                             | 36.2 | 37.6 | 40.7 | 44.7 | 45.9 | 47.5 | 49.2 | 49.6 | 49.9 | 50.7 | 50.4 | 51.0 | 51.3 | 51.3 | 51.5  |   |
| GE 4500  | 27.9                             | 38.6 | 40.0 | 43.1 | 46.7 | 48.5 | 50.1 | 51.9 | 52.3 | 52.7 | 53.0 | 53.1 | 53.7 | 54.1 | 54.1 | 54.4  |   |
| GE 4000  | 29.7                             | 40.4 | 42.0 | 45.4 | 49.7 | 50.8 | 52.7 | 54.5 | 54.9 | 55.3 | 55.6 | 55.7 | 56.4 | 56.9 | 56.9 | 57.1  |   |
| GE 3500  | 30.1                             | 41.3 | 42.9 | 46.4 | 50.1 | 52.1 | 54.0 | 55.8 | 56.3 | 56.6 | 57.0 | 57.1 | 57.8 | 58.2 | 58.2 | 58.4  |   |
| GE 3000  | 32.6                             | 44.5 | 46.1 | 49.8 | 53.7 | 55.6 | 57.5 | 59.3 | 59.8 | 60.1 | 60.5 | 60.6 | 61.3 | 61.7 | 61.7 | 61.9  |   |
| GE 2500  | 33.7                             | 46.0 | 47.9 | 51.5 | 55.0 | 57.4 | 59.3 | 61.2 | 61.6 | 61.9 | 62.3 | 62.4 | 63.1 | 63.5 | 63.5 | 63.8  |   |
| GE 2000  | 35.3                             | 48.2 | 50.2 | 53.8 | 58.7 | 60.0 | 61.9 | 63.8 | 64.3 | 64.7 | 65.0 | 65.1 | 65.8 | 66.3 | 66.3 | 66.5  |   |
| GE 1800  | 36.1                             | 49.2 | 51.1 | 55.0 | 59.2 | 61.3 | 63.2 | 65.1 | 65.7 | 66.0 | 66.4 | 66.5 | 67.2 | 67.6 | 67.6 | 67.8  |   |
| GE 1700  | 36.6                             | 52.2 | 54.1 | 58.2 | 62.4 | 64.4 | 66.4 | 68.3 | 68.9 | 69.2 | 69.5 | 69.6 | 70.3 | 70.8 | 71.0 |       |   |
| GE 1600  | 41.4                             | 56.2 | 58.1 | 64.2 | 66.5 | 68.5 | 70.4 | 72.6 | 73.3 | 73.6 | 74.0 | 74.1 | 74.7 | 75.2 | 75.4 |       |   |
| GE 1500  | 42.8                             | 58.4 | 60.7 | 65.1 | 69.4 | 71.6 | 73.5 | 75.8 | 76.4 | 76.8 | 77.1 | 77.2 | 77.9 | 78.4 | 78.4 | 78.6  |   |
| GE 9000  | 43.1                             | 59.7 | 62.1 | 66.5 | 70.2 | 73.0 | 75.0 | 77.2 | 77.9 | 78.3 | 78.6 | 79.2 | 79.4 | 79.8 | 79.8 | 80.1  |   |
| GE 8000  | 43.6                             | 61.2 | 63.6 | 68.3 | 72.7 | 75.1 | 77.1 | 79.5 | 80.2 | 80.5 | 80.9 | 81.0 | 81.7 | 82.1 | 82.1 | 82.3  |   |
| GE 7000  | 44.8                             | 62.7 | 65.3 | 70.1 | 74.7 | 77.0 | 79.2 | 81.5 | 82.2 | 82.6 | 82.9 | 83.0 | 83.7 | 84.1 | 84.1 | 84.4  |   |
| GE 6000  | 46.3                             | 64.0 | 67.0 | 72.4 | 76.5 | 79.4 | 81.5 | 83.9 | 84.8 | 85.2 | 85.5 | 85.6 | 86.3 | 86.7 | 86.7 | 87.0  |   |
| GE 5000  | 47.6                             | 65.9 | 68.1 | 73.4 | 76.1 | 80.7 | 83.2 | 85.7 | 86.6 | 87.0 | 87.7 | 87.4 | 88.1 | 88.6 | 88.6 | 88.8  |   |
| GE 4000  | 45.9                             | 65.6 | 68.9 | 74.5 | 80.7 | 82.8 | 85.7 | 88.3 | 89.4 | 89.7 | 90.0 | 90.1 | 90.8 | 91.3 | 91.3 | 91.5  |   |
| GE 3000  | 45.9                             | 65.8 | 69.3 | 75.4 | 81.1 | 84.3 | 87.4 | 90.7 | 91.8 | 92.3 | 92.6 | 92.8 | 93.4 | 93.9 | 93.9 | 94.1  |   |
| GE 2000  | 45.9                             | 65.9 | 69.5 | 76.1 | 82.4 | 85.6 | 88.9 | 92.8 | 94.1 | 94.6 | 94.9 | 95.1 | 95.8 | 96.3 | 96.3 | 96.6  |   |
| GE 1000  | 45.9                             | 65.9 | 69.5 | 76.2 | 82.7 | 86.1 | 89.4 | 93.7 | 95.0 | 95.9 | 96.4 | 96.7 | 97.4 | 98.3 | 98.3 | 98.9  |   |
| GE 0     | 45.9                             | 65.9 | 69.5 | 76.2 | 82.6 | 86.1 | 89.4 | 93.7 | 95.0 | 96.2 | 96.6 | 96.9 | 97.7 | 99.0 | 99.0 | 100.0 |   |

TOTAL NUMBER OF OBSERVATIONS: 883

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GL<br>12 | GI<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | UF<br>0 |       |
| NO CEIL               | 16.2                             | 21.7     | 22.9     | 24.7     | 25.9     | 26.1     | 26.1     | 26.1     | 26.1     | 26.1     | 26.1     | 26.1    | 26.1    | 26.1    | 26.1    | 26.1  |
| UF 20000              | 23.2                             | 29.8     | 31.7     | 33.9     | 35.0     | 35.2     | 35.2     | 35.2     | 35.2     | 35.2     | 35.2     | 35.2    | 35.2    | 35.2    | 35.2    | 35.2  |
| UF 18000              | 23.2                             | 29.6     | 31.7     | 33.9     | 35.0     | 35.2     | 35.2     | 35.2     | 35.2     | 35.2     | 35.2     | 35.2    | 35.2    | 35.2    | 35.2    | 35.2  |
| UF 16000              | 23.2                             | 29.8     | 31.7     | 33.9     | 35.0     | 35.2     | 35.2     | 35.2     | 35.2     | 35.2     | 35.2     | 35.2    | 35.2    | 35.2    | 35.2    | 35.2  |
| UF 14000              | 24.1                             | 30.8     | 32.7     | 35.0     | 36.1     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3    | 36.3    | 36.3    | 36.3    | 36.3  |
| UF 12000              | 25.8                             | 32.8     | 34.9     | 37.1     | 38.2     | 38.5     | 38.5     | 38.5     | 38.5     | 38.5     | 38.5     | 38.5    | 38.5    | 38.5    | 38.5    | 38.5  |
| UF 10000              | 24.1                             | 26.3     | 38.7     | 41.4     | 42.5     | 42.7     | 42.7     | 42.7     | 42.7     | 42.7     | 42.7     | 42.7    | 42.7    | 42.7    | 42.7    | 42.7  |
| UF 9000               | 29.1                             | 37.5     | 40.0     | 43.0     | 44.2     | 44.4     | 44.4     | 44.4     | 44.4     | 44.4     | 44.4     | 44.4    | 44.4    | 44.4    | 44.4    | 44.4  |
| UF 8000               | 29.5                             | 37.8     | 40.4     | 43.3     | 44.5     | 44.8     | 44.8     | 44.8     | 44.8     | 44.8     | 44.8     | 44.8    | 44.8    | 44.8    | 44.8    | 44.8  |
| UF 7000               | 29.9                             | 38.2     | 40.8     | 43.8     | 45.0     | 45.2     | 45.2     | 45.2     | 45.2     | 45.2     | 45.2     | 45.2    | 45.2    | 45.2    | 45.2    | 45.2  |
| UF 6000               | 31.0                             | 39.6     | 42.2     | 45.1     | 46.5     | 46.6     | 46.6     | 46.6     | 46.6     | 46.6     | 46.6     | 46.6    | 46.6    | 46.6    | 46.6    | 46.6  |
| UF 5000               | 38.2                             | 44.2     | 46.8     | 49.8     | 51.1     | 51.3     | 51.3     | 51.3     | 51.3     | 51.3     | 51.3     | 51.3    | 51.3    | 51.3    | 51.3    | 51.3  |
| UF 4500               | 38.7                             | 48.3     | 50.8     | 53.9     | 55.1     | 55.3     | 55.5     | 55.5     | 55.5     | 55.5     | 55.5     | 55.5    | 55.5    | 55.5    | 55.5    | 55.5  |
| GE 4000               | 41.1                             | 51.2     | 54.0     | 57.1     | 58.4     | 58.6     | 58.7     | 58.7     | 58.7     | 58.7     | 58.7     | 58.7    | 58.7    | 58.7    | 58.7    | 58.7  |
| UF 3500               | 43.1                             | 53.3     | 56.1     | 59.3     | 60.5     | 60.7     | 60.9     | 60.9     | 60.9     | 60.9     | 60.9     | 60.9    | 60.9    | 60.9    | 60.9    | 60.9  |
| UF 3000               | 45.8                             | 56.1     | 58.9     | 62.3     | 63.6     | 63.8     | 63.9     | 63.9     | 63.9     | 63.9     | 63.9     | 63.9    | 63.9    | 63.9    | 63.9    | 63.9  |
| UF 2700               | 49.3                             | 60.2     | 63.0     | 66.5     | 67.7     | 67.9     | 68.1     | 68.1     | 68.1     | 68.1     | 68.1     | 68.1    | 68.1    | 68.1    | 68.1    | 68.1  |
| UF 2400               | 54.0                             | 65.4     | 68.3     | 71.6     | 73.0     | 73.2     | 73.3     | 73.3     | 73.3     | 73.3     | 73.3     | 73.3    | 73.3    | 73.3    | 73.3    | 73.3  |
| UF 1900               | 55.6                             | 67.4     | 70.3     | 73.9     | 75.1     | 75.4     | 75.5     | 75.5     | 75.5     | 75.5     | 75.5     | 75.5    | 75.5    | 75.5    | 75.5    | 75.5  |
| UF 1700               | 59.4                             | 72.2     | 75.1     | 78.9     | 80.1     | 80.3     | 80.4     | 80.4     | 80.4     | 80.4     | 80.4     | 80.4    | 80.4    | 80.4    | 80.4    | 80.4  |
| UF 1200               | 62.3                             | 76.3     | 79.4     | 83.7     | 85.7     | 85.8     | 85.9     | 85.9     | 85.9     | 85.9     | 85.9     | 85.9    | 85.9    | 85.9    | 85.9    | 85.9  |
| UF 1000               | 63.8                             | 78.9     | 82.2     | 87.2     | 89.1     | 90.0     | 90.1     | 90.1     | 90.1     | 90.1     | 90.1     | 90.1    | 90.1    | 90.1    | 90.1    | 90.1  |
| UF 900                | 64.1                             | 79.5     | 83.0     | 86.2     | 90.1     | 91.1     | 91.2     | 91.2     | 91.2     | 91.2     | 91.2     | 91.2    | 91.2    | 91.2    | 91.2    | 91.2  |
| UF 800                | 64.3                             | 80.0     | 83.6     | 88.9     | 90.9     | 91.9     | 92.0     | 92.0     | 92.0     | 92.0     | 92.0     | 92.0    | 92.0    | 92.0    | 92.0    | 92.0  |
| UF 700                | 64.7                             | 81.0     | 84.6     | 90.1     | 92.6     | 93.6     | 93.7     | 93.7     | 93.7     | 93.7     | 93.7     | 93.7    | 93.7    | 93.7    | 93.7    | 93.7  |
| UF 600                | 65.4                             | 82.7     | 86.5     | 92.2     | 94.0     | 96.0     | 96.2     | 96.2     | 96.2     | 96.2     | 96.2     | 96.2    | 96.2    | 96.2    | 96.2    | 96.2  |
| UF 500                | 65.5                             | 82.8     | 86.7     | 92.5     | 95.1     | 96.5     | 96.7     | 96.9     | 97.0     | 97.0     | 97.0     | 97.0    | 97.0    | 97.0    | 97.0    | 97.0  |
| UF 400                | 65.5                             | 83.2     | 87.4     | 93.1     | 96.1     | 97.5     | 97.9     | 98.1     | 98.2     | 98.3     | 98.3     | 98.3    | 98.3    | 98.3    | 98.3    | 98.3  |
| UF 300                | 65.5                             | 83.5     | 87.6     | 93.8     | 97.4     | 98.4     | 99.0     | 99.1     | 99.3     | 99.4     | 99.4     | 99.4    | 99.4    | 99.4    | 99.4    | 99.4  |
| UF 200                | 65.5                             | 83.5     | 87.6     | 93.8     | 97.4     | 98.5     | 99.0     | 99.4     | 99.7     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    | 99.8  |
| UF 100                | 65.5                             | 83.5     | 87.6     | 93.8     | 97.4     | 98.5     | 99.1     | 99.6     | 99.9     | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   | 100.0 |
| UF 70                 | 65.5                             | 83.5     | 87.6     | 93.8     | 97.4     | 98.5     | 99.1     | 99.6     | 99.9     | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 889

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: ROSCOMIE DOWN UK

PERIOD OF RECORD: 77-84  
MONTH: JUN HOURS(LST): 1200-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |
|-----------------------|----------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                       | 160                              | 90   | 60   | 48   | 46   | 32   | 24   | 20    | 16    | 12    | 10    | 8     | 5     | 4     | 3     | 2     |
| NO CEIL               | 17.4                             | 21.6 | 22.5 | 22.7 | 23.0 | 23.0 | 23.0 | 23.0  | 23.0  | 23.0  | 23.0  | 23.0  | 23.0  | 23.0  | 23.0  | 23.0  |
| GE 700001             | 25.8                             | 32.0 | 32.5 | 33.5 | 33.7 | 33.7 | 33.7 | 33.7  | 33.7  | 33.7  | 33.7  | 33.7  | 33.7  | 33.7  | 33.7  | 33.7  |
| GE 180001             | 25.9                             | 32.1 | 33.4 | 33.6 | 33.8 | 33.8 | 33.8 | 33.8  | 33.8  | 33.8  | 33.8  | 33.8  | 33.8  | 33.8  | 33.8  | 33.8  |
| GE 160001             | 25.9                             | 32.1 | 33.3 | 33.8 | 34.0 | 34.0 | 34.0 | 34.0  | 34.0  | 34.0  | 34.0  | 34.0  | 34.0  | 34.0  | 34.0  | 34.0  |
| GE 140001             | 26.5                             | 33.1 | 34.3 | 34.8 | 35.1 | 35.1 | 35.1 | 35.1  | 35.1  | 35.1  | 35.1  | 35.1  | 35.1  | 35.1  | 35.1  | 35.1  |
| GE 120001             | 27.0                             | 34.6 | 35.9 | 36.4 | 36.7 | 36.7 | 36.7 | 36.7  | 36.7  | 36.7  | 36.7  | 36.7  | 36.7  | 36.7  | 36.7  | 36.7  |
| SL 130001             | 30.2                             | 38.1 | 39.4 | 40.3 | 40.5 | 40.5 | 40.5 | 40.5  | 40.5  | 40.5  | 40.5  | 40.5  | 40.5  | 40.5  | 40.5  | 40.5  |
| UT 900001             | 30.9                             | 39.3 | 40.6 | 41.5 | 41.7 | 41.7 | 41.7 | 41.7  | 41.7  | 41.7  | 41.7  | 41.7  | 41.7  | 41.7  | 41.7  | 41.7  |
| GF 800001             | 31.1                             | 39.5 | 41.0 | 41.9 | 42.1 | 42.2 | 42.2 | 42.2  | 42.2  | 42.2  | 42.2  | 42.2  | 42.2  | 42.2  | 42.2  | 42.2  |
| UF 700001             | 31.6                             | 40.5 | 42.0 | 42.9 | 43.1 | 43.2 | 43.2 | 43.2  | 43.2  | 43.2  | 43.2  | 43.2  | 43.2  | 43.2  | 43.2  | 43.2  |
| GE 600001             | 33.4                             | 42.4 | 43.9 | 44.8 | 45.1 | 45.1 | 45.1 | 45.1  | 45.1  | 45.1  | 45.1  | 45.1  | 45.1  | 45.1  | 45.1  | 45.1  |
| GE 500001             | 42.8                             | 52.9 | 54.4 | 55.7 | 55.9 | 56.0 | 56.0 | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  |
| GE 400001             | 45.9                             | 60.0 | 61.5 | 62.9 | 63.1 | 63.2 | 63.2 | 63.2  | 63.2  | 63.2  | 63.2  | 63.2  | 63.2  | 63.2  | 63.2  | 63.2  |
| GE 300001             | 53.4                             | 65.2 | 66.7 | 68.3 | 68.7 | 68.8 | 68.8 | 68.8  | 68.8  | 68.8  | 68.8  | 68.8  | 68.8  | 68.8  | 68.8  | 68.8  |
| GE 300001             | 55.9                             | 68.1 | 69.7 | 71.4 | 71.7 | 71.8 | 71.8 | 71.8  | 71.8  | 71.8  | 71.8  | 71.8  | 71.8  | 71.8  | 71.8  | 71.8  |
| GE 300001             | 57.3                             | 71.7 | 73.3 | 75.1 | 75.6 | 75.7 | 75.7 | 75.7  | 75.7  | 75.7  | 75.7  | 75.7  | 75.7  | 75.7  | 75.7  | 75.7  |
| GE 200001             | 63.5                             | 76.6 | 79.7 | 80.1 | 80.5 | 80.7 | 80.7 | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  | 80.7  |
| GE 200001             | 67.5                             | 81.3 | 82.9 | 85.0 | 85.4 | 85.5 | 85.5 | 85.5  | 85.5  | 85.5  | 85.5  | 85.5  | 85.5  | 85.5  | 85.5  | 85.5  |
| GE 190001             | 68.7                             | 82.7 | 84.4 | 86.5 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1  | 87.1  | 87.1  | 87.1  | 87.1  | 87.1  | 87.1  | 87.1  |
| GE 150001             | 71.0                             | 85.5 | 87.2 | 89.5 | 90.2 | 90.2 | 90.3 | 90.3  | 90.3  | 90.3  | 90.3  | 90.3  | 90.3  | 90.3  | 90.3  | 90.3  |
| GE 120001             | 72.6                             | 88.3 | 90.0 | 92.5 | 93.1 | 93.3 | 93.4 | 93.4  | 93.4  | 93.4  | 93.4  | 93.4  | 93.4  | 93.4  | 93.4  | 93.4  |
| GE 100001             | 73.2                             | 89.4 | 91.0 | 93.8 | 94.7 | 94.9 | 94.9 | 95.0  | 95.0  | 95.0  | 95.0  | 95.0  | 95.0  | 95.0  | 95.0  | 95.0  |
| GE 900001             | 73.3                             | 89.8 | 91.6 | 94.2 | 95.1 | 95.5 | 95.5 | 95.6  | 95.6  | 95.6  | 95.6  | 95.6  | 95.6  | 95.6  | 95.6  | 95.6  |
| GE 800001             | 73.4                             | 90.2 | 92.1 | 94.9 | 95.8 | 96.2 | 96.2 | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  | 96.3  |
| GE 700001             | 73.5                             | 90.5 | 92.5 | 95.5 | 96.5 | 96.9 | 96.9 | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  |
| GE 600001             | 77.6                             | 91.0 | 93.2 | 96.2 | 97.7 | 97.7 | 98.2 | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  |
| GE 500001             | 77.8                             | 91.4 | 93.7 | 96.7 | 98.0 | 98.5 | 99.0 | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  |
| GE 400001             | 73.9                             | 91.5 | 93.8 | 96.8 | 98.2 | 98.9 | 99.3 | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  |
| GE 300001             | 74.0                             | 91.6 | 93.9 | 96.9 | 98.3 | 98.4 | 99.8 | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 200001             | 74.0                             | 91.6 | 93.9 | 96.9 | 98.5 | 99.2 | 99.8 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100001             | 74.0                             | 91.6 | 93.9 | 96.9 | 98.5 | 99.2 | 99.8 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE -1                 | 74.0                             | 91.6 | 93.9 | 96.9 | 98.5 | 99.2 | 99.8 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 964

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 1500-1700

| CEILING<br>IN FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|--------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                    | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | SI<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |
| NO CEIL            | 20.1                             | 24.4     | 24.7     | 24.8     | 24.8     | 24.9     | 24.9     | 24.9     | 24.9     | 24.9     | 24.9     | 24.9    | 24.9    | 24.9    | 24.9    | 24.9  |
| GE 2000            | 31.5                             | 37.7     | 37.9     | 38.0     | 38.2     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3    | 38.3    | 38.3    | 38.3    | 38.3  |
| GE 1800            | 31.6                             | 37.7     | 37.9     | 38.0     | 38.2     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3    | 38.3    | 38.3    | 38.3    | 38.3  |
| GE 1600            | 31.6                             | 37.7     | 37.9     | 38.0     | 38.2     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3     | 38.3    | 38.3    | 38.3    | 38.3    | 38.3  |
| GE 1400            | 32.1                             | 38.5     | 38.7     | 38.8     | 39.0     | 39.1     | 39.1     | 39.1     | 39.1     | 39.1     | 39.1     | 39.1    | 39.1    | 39.1    | 39.1    | 39.1  |
| GE 1200            | 33.6                             | 40.2     | 40.4     | 40.5     | 40.7     | 40.8     | 40.8     | 40.8     | 40.8     | 40.8     | 40.8     | 40.8    | 40.8    | 40.8    | 40.8    | 40.8  |
| GE 1000            | 36.8                             | 44.1     | 44.6     | 44.7     | 44.9     | 45.0     | 45.0     | 45.1     | 45.1     | 45.1     | 45.1     | 45.1    | 45.1    | 45.1    | 45.1    | 45.1  |
| GE 900             | 38.9                             | 46.8     | 47.3     | 47.4     | 47.6     | 47.7     | 47.9     | 48.0     | 48.0     | 48.0     | 48.0     | 48.0    | 48.0    | 48.0    | 48.0    | 48.0  |
| GE 800             | 39.0                             | 47.3     | 47.7     | 47.9     | 48.3     | 48.4     | 48.5     | 48.6     | 48.6     | 48.6     | 48.6     | 48.6    | 48.6    | 48.6    | 48.6    | 48.6  |
| GE 700             | 40.2                             | 48.4     | 48.9     | 49.0     | 49.5     | 49.7     | 49.8     | 49.9     | 49.9     | 49.9     | 49.9     | 49.9    | 49.9    | 49.9    | 49.9    | 49.9  |
| GE 600             | 43.0                             | 51.6     | 52.1     | 52.3     | 52.9     | 53.1     | 53.2     | 53.3     | 53.3     | 53.3     | 53.3     | 53.3    | 53.3    | 53.3    | 53.3    | 53.3  |
| GE 500             | 51.5                             | 63.6     | 64.1     | 64.4     | 65.0     | 65.2     | 65.3     | 65.4     | 65.4     | 65.4     | 65.4     | 65.4    | 65.4    | 65.4    | 65.4    | 65.4  |
| GE 400             | 59.6                             | 69.9     | 70.5     | 70.8     | 71.5     | 71.6     | 71.7     | 71.8     | 71.8     | 71.8     | 71.8     | 71.8    | 71.8    | 71.8    | 71.8    | 71.8  |
| GE 300             | 67.9                             | 74.3     | 75.0     | 75.3     | 76.0     | 76.2     | 76.4     | 76.5     | 76.5     | 76.5     | 76.5     | 76.5    | 76.5    | 76.5    | 76.5    | 76.5  |
| GE 200             | 64.1                             | 75.7     | 76.4     | 76.8     | 77.7     | 77.9     | 78.1     | 78.2     | 78.2     | 78.2     | 78.2     | 78.2    | 78.2    | 78.2    | 78.2    | 78.2  |
| GE 100             | 76.3                             | 79.3     | 80.1     | 80.5     | 81.4     | 81.7     | 81.8     | 81.9     | 81.9     | 81.9     | 81.9     | 81.9    | 81.9    | 81.9    | 81.9    | 81.9  |
| GE 2000            | 70.2                             | 82.5     | 83.3     | 83.7     | 84.6     | 84.8     | 85.0     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1    | 85.1    | 85.1    | 85.1    | 85.1  |
| GE 1800            | 72.9                             | 85.5     | 86.6     | 87.2     | 88.7     | 88.5     | 88.6     | 88.7     | 88.7     | 88.7     | 88.7     | 88.7    | 88.7    | 88.7    | 88.7    | 88.7  |
| GE 1600            | 74.4                             | 87.3     | 88.8     | 89.5     | 90.5     | 90.7     | 90.8     | 91.0     | 91.0     | 91.0     | 91.0     | 91.0    | 91.0    | 91.0    | 91.0    | 91.0  |
| GE 1400            | 76.0                             | 89.3     | 91.7     | 91.4     | 92.4     | 92.6     | 92.8     | 92.9     | 92.9     | 92.9     | 92.9     | 92.9    | 92.9    | 92.9    | 92.9    | 92.9  |
| GE 1200            | 76.6                             | 90.8     | 92.4     | 92.4     | 94.9     | 95.0     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2    | 95.2    | 95.2    | 95.2    | 95.2  |
| GE 1000            | 76.7                             | 91.3     | 92.9     | 94.2     | 95.6     | 95.9     | 96.0     | 96.3     | 96.3     | 96.4     | 96.4     | 96.4    | 96.4    | 96.4    | 96.4    | 96.4  |
| GE 900             | 76.9                             | 91.6     | 93.2     | 94.6     | 95.2     | 96.4     | 96.6     | 96.8     | 96.8     | 96.9     | 96.9     | 96.9    | 96.9    | 96.9    | 96.9    | 96.9  |
| GE 800             | 76.9                             | 91.7     | 93.3     | 94.8     | 96.2     | 96.7     | 96.9     | 97.2     | 97.2     | 97.3     | 97.3     | 97.3    | 97.3    | 97.3    | 97.3    | 97.3  |
| GE 700             | 76.9                             | 92.1     | 93.7     | 95.1     | 96.3     | 97.4     | 97.6     | 97.9     | 97.9     | 98.0     | 98.0     | 98.0    | 98.0    | 98.0    | 98.0    | 98.0  |
| GE 600             | 77.0                             | 92.2     | 93.9     | 95.5     | 97.2     | 97.7     | 98.0     | 98.2     | 98.2     | 98.4     | 98.4     | 98.4    | 98.4    | 98.4    | 98.4    | 98.4  |
| GE 500             | 77.0                             | 92.4     | 94.5     | 95.5     | 97.3     | 98.0     | 98.3     | 98.6     | 98.6     | 98.9     | 98.9     | 98.9    | 98.9    | 98.9    | 98.9    | 98.9  |
| GE 400             | 77.0                             | 92.5     | 94.6     | 95.5     | 97.3     | 98.0     | 98.3     | 98.6     | 98.6     | 98.9     | 98.9     | 98.9    | 98.9    | 98.9    | 98.9    | 98.9  |
| GE 300             | 77.0                             | 92.5     | 94.6     | 95.7     | 97.5     | 98.4     | 99.1     | 99.5     | 99.5     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    | 99.8  |
| GE 200             | 77.0                             | 92.5     | 94.6     | 95.8     | 97.6     | 98.6     | 99.3     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   | 100.0 |
| GE 100             | 77.0                             | 92.5     | 94.6     | 95.8     | 97.6     | 98.6     | 99.3     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   | 100.0 |
| GE 0               | 77.0                             | 92.5     | 94.6     | 95.8     | 97.6     | 98.6     | 99.3     | 99.8     | 99.8     | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 984

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

| STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK |           |          |          |          |          |          |          |          |          |          |          |         |         |         | PERIOD OF RECORD: 77-86          |            |           |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|---|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|----------------------------------|------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|   |           |          |          |          |          |          |          |          |          |          |          |         |         |         | MONTH: JUN HOURS(LST): 1800-2000 |            |           |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
| CEILING   |           |          |          |          |          |          |          |          |          |          |          |         |         |         | VISIBILITY IN HUNDREDS OF METERS |            |           |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
| IN<br>FEET  | G1<br>160 | GE<br>90 | GL<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GL<br>12 | G1<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0                          | IN<br>FEET | G1<br>160 | GE<br>90 | GL<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GL<br>12 | G1<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CETL   | 25.0      | 30.2     | 30.9     | 31.7     | 31.8     | 32.0     | 32.0     | 32.0     | 32.0     | 32.0     | 32.0     | 32.0    | 32.0    | 32.0    | 32.0                             | 25.0       | 30.2      | 30.9     | 31.7     | 31.8     | 32.0     | 32.0     | 32.0     | 32.0     | 32.0     | 32.0     | 32.0     | 32.0    |         |         |         |
| GE 20000  | 37.6      | 44.7     | 45.4     | 46.4     | 46.5     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8    | 46.8    | 46.8    | 46.8                             | 37.6       | 44.7      | 45.4     | 46.4     | 46.5     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8    |         |         |         |
| GE 18000  | 37.6      | 44.7     | 45.4     | 46.4     | 46.5     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8    | 46.8    | 46.8    | 46.8                             | 37.6       | 44.7      | 45.4     | 46.4     | 46.5     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8    |         |         |         |
| GE 16000  | 37.7      | 44.8     | 45.5     | 46.5     | 46.6     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9    | 46.9    | 46.9    | 46.9                             | 37.7       | 44.8      | 45.5     | 46.5     | 46.6     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9     | 46.9    |         |         |         |
| GE 14000  | 38.5      | 45.6     | 46.3     | 47.3     | 47.4     | 47.7     | 47.7     | 47.7     | 47.7     | 47.7     | 47.7     | 47.7    | 47.7    | 47.7    | 47.7                             | 38.5       | 45.6      | 46.3     | 47.3     | 47.4     | 47.7     | 47.7     | 47.7     | 47.7     | 47.7     | 47.7     | 47.7     | 47.7    |         |         |         |
| GE 12000  | 40.0      | 47.3     | 48.0     | 49.0     | 49.1     | 49.4     | 49.4     | 49.4     | 49.4     | 49.4     | 49.4     | 49.4    | 49.4    | 49.4    | 49.4                             | 40.0       | 47.3      | 48.0     | 49.0     | 49.1     | 49.4     | 49.4     | 49.4     | 49.4     | 49.4     | 49.4     | 49.4     | 49.4    |         |         |         |
| GE 10000  | 42.4      | 50.7     | 51.4     | 52.7     | 52.8     | 53.0     | 53.0     | 53.1     | 53.1     | 53.1     | 53.1     | 53.1    | 53.1    | 53.1    | 53.1                             | 42.4       | 50.7      | 51.4     | 52.7     | 52.8     | 53.0     | 53.0     | 53.1     | 53.1     | 53.1     | 53.1     | 53.1     | 53.1    |         |         |         |
| GE 8000   | 43.8      | 52.9     | 53.6     | 54.8     | 55.2     | 55.4     | 55.4     | 55.6     | 55.6     | 55.6     | 55.6     | 55.6    | 55.6    | 55.6    | 55.6                             | 43.8       | 52.9      | 53.6     | 54.8     | 55.2     | 55.4     | 55.4     | 55.6     | 55.6     | 55.6     | 55.6     | 55.6     | 55.6    |         |         |         |
| GE 6000   | 44.8      | 54.0     | 54.7     | 56.1     | 56.4     | 56.7     | 56.7     | 56.9     | 56.9     | 56.9     | 56.9     | 56.9    | 56.9    | 56.9    | 56.9                             | 44.8       | 54.0      | 54.7     | 56.1     | 56.4     | 56.7     | 56.7     | 56.9     | 56.9     | 56.9     | 56.9     | 56.9     | 56.9    |         |         |         |
| GE 7000   | 45.0      | 54.4     | 55.1     | 56.4     | 56.8     | 57.0     | 57.0     | 57.2     | 57.2     | 57.2     | 57.2     | 57.2    | 57.2    | 57.2    | 57.2                             | 45.0       | 54.4      | 55.1     | 56.4     | 56.8     | 57.0     | 57.0     | 57.2     | 57.2     | 57.2     | 57.2     | 57.2     | 57.2    |         |         |         |
| GE 5000   | 48.0      | 57.6     | 58.3     | 59.6     | 60.0     | 60.2     | 60.2     | 60.4     | 60.4     | 60.4     | 60.4     | 60.4    | 60.4    | 60.4    | 60.4                             | 48.0       | 57.6      | 58.3     | 59.6     | 60.0     | 60.2     | 60.2     | 60.4     | 60.4     | 60.4     | 60.4     | 60.4     | 60.4    |         |         |         |
| GE 50000  | 52.6      | 63.9     | 64.7     | 66.2     | 67.0     | 67.5     | 67.5     | 67.7     | 67.7     | 67.7     | 67.7     | 67.7    | 67.7    | 67.7    | 67.7                             | 52.6       | 63.9      | 64.7     | 66.2     | 67.0     | 67.5     | 67.5     | 67.7     | 67.7     | 67.7     | 67.7     | 67.7     | 67.7    |         |         |         |
| GE 45000  | 57.4      | 68.7     | 69.4     | 70.9     | 71.7     | 72.2     | 72.2     | 72.4     | 72.4     | 72.4     | 72.4     | 72.4    | 72.4    | 72.4    | 72.4                             | 57.4       | 68.7      | 69.4     | 70.9     | 71.7     | 72.2     | 72.2     | 72.4     | 72.4     | 72.4     | 72.4     | 72.4     | 72.4    |         |         |         |
| GE 40000  | 59.2      | 70.6     | 71.6     | 73.3     | 74.1     | 74.7     | 74.8     | 75.0     | 75.0     | 75.0     | 75.0     | 75.0    | 75.0    | 75.0    | 75.0                             | 59.2       | 70.6      | 71.6     | 73.3     | 74.1     | 74.7     | 74.8     | 75.0     | 75.0     | 75.0     | 75.0     | 75.0     | 75.0    |         |         |         |
| GE 35000  | 61.3      | 77.7     | 78.6     | 75.8     | 76.7     | 77.3     | 77.4     | 77.7     | 77.7     | 77.7     | 77.7     | 77.7    | 77.7    | 77.7    | 77.7                             | 61.3       | 77.7      | 78.6     | 75.8     | 76.7     | 77.3     | 77.4     | 77.7     | 77.7     | 77.7     | 77.7     | 77.7     | 77.7    |         |         |         |
| GE 30000  | 64.2      | 76.4     | 77.9     | 79.7     | 80.7     | 81.4     | 81.5     | 81.8     | 81.8     | 81.8     | 81.8     | 81.8    | 81.8    | 81.8    | 81.8                             | 64.2       | 76.4      | 77.9     | 79.7     | 80.7     | 81.4     | 81.5     | 81.8     | 81.8     | 81.8     | 81.8     | 81.8     | 81.8    |         |         |         |
| GE 25000  | 66.6      | 79.2     | 80.8     | 82.8     | 83.8     | 84.5     | 84.6     | 84.6     | 84.9     | 84.9     | 84.9     | 84.9    | 84.9    | 84.9    | 84.9                             | 66.6       | 79.2      | 80.8     | 82.8     | 83.8     | 84.5     | 84.6     | 84.6     | 84.9     | 84.9     | 84.9     | 84.9     | 84.9    |         |         |         |
| GE 22000  | 69.7      | 82.0     | 83.6     | 85.7     | 86.3     | 87.5     | 87.6     | 87.9     | 87.9     | 87.9     | 87.9     | 87.9    | 87.9    | 87.9    | 87.9                             | 69.7       | 82.0      | 83.6     | 85.7     | 86.3     | 87.5     | 87.6     | 87.9     | 87.9     | 87.9     | 87.9     | 87.9     | 87.9    |         |         |         |
| GE 19000  | 69.3      | 83.4     | 85.2     | 87.1     | 88.1     | 88.8     | 88.9     | 89.3     | 89.3     | 89.3     | 89.3     | 89.3    | 89.3    | 89.3    | 89.3                             | 69.3       | 83.4      | 85.2     | 87.1     | 88.1     | 88.8     | 88.9     | 88.9     | 89.3     | 89.3     | 89.3     | 89.3     | 89.3    |         |         |         |
| GE 15000  | 70.7      | 85.2     | 87.6     | 89.1     | 90.1     | 90.8     | 91.2     | 91.2     | 91.2     | 91.2     | 91.2     | 91.2    | 91.2    | 91.2    | 91.2                             | 70.7       | 85.2      | 87.6     | 89.1     | 90.1     | 90.8     | 91.2     | 91.2     | 91.2     | 91.2     | 91.2     | 91.2     | 91.2    |         |         |         |
| GE 12000  | 71.7      | 86.8     | 88.7     | 91.0     | 92.1     | 92.9     | 93.0     | 93.4     | 93.4     | 93.4     | 93.4     | 93.4    | 93.4    | 93.4    | 93.4                             | 71.7       | 86.8      | 88.7     | 91.0     | 92.1     | 92.9     | 93.0     | 93.4     | 93.4     | 93.4     | 93.4     | 93.4     | 93.4    |         |         |         |
| GL 10000  | 87.7      | 89.7     | 92.1     | 93.3     | 94.1     | 94.2     | 94.5     | 94.5     | 94.5     | 94.5     | 94.5     | 94.5    | 94.5    | 94.5    | 94.5                             | 87.7       | 89.7      | 92.1     | 93.3     | 94.1     | 94.2     | 94.5     | 94.5     | 94.5     | 94.5     | 94.5     | 94.5     | 94.5    |         |         |         |
| GE 9000   | 87.8      | 89.9     | 92.2     | 93.4     | 94.2     | 94.3     | 95.0     | 95.0     | 95.0     | 95.0     | 95.0     | 95.0    | 95.0    | 95.0    | 95.0                             | 87.8       | 89.9      | 92.2     | 93.4     | 94.2     | 94.3     | 95.0     | 95.0     | 95.0     | 95.0     | 95.0     | 95.0     | 95.0    |         |         |         |
| GE 8000   | 88.0      | 90.4     | 92.6     | 94.7     | 94.5     | 94.6     | 95.3     | 95.3     | 95.3     | 95.3     | 95.3     | 95.3    | 95.3    | 95.3    | 95.3                             | 88.0       | 90.4      | 92.6     | 94.7     | 94.5     | 94.6     | 95.3     | 95.3     | 95.3     | 95.3     | 95.3     | 95.3     | 95.3    |         |         |         |
| GE 7000   | 88.3      | 90.3     | 92.7     | 94.6     | 94.9     | 95.0     | 95.8     | 95.8     | 95.8     | 95.8     | 95.8     | 95.8    | 95.8    | 95.8    | 95.8                             | 88.3       | 90.3      | 92.7     | 94.6     | 94.9     | 95.0     | 95.8     | 95.8     | 95.8     | 95.8     | 95.8     | 95.8     | 95.8    |         |         |         |
| GE 6000   | 88.6      | 90.5     | 93.2     | 94.4     | 95.3     | 95.4     | 96.4     | 96.4     | 96.4     | 96.4     | 96.4     | 96.4    | 96.4    | 96.4    | 96.4                             | 88.6       | 90.5      | 93.2     | 94.4     | 95.3     | 95.4     | 96.4     | 96.4     | 96.4     | 96.4     | 96.4     | 96.4     | 96.4    |         |         |         |
| GE 5000   | 72.6      | 88.7     | 90.6     | 93.5     | 94.9     | 95.8     | 95.9     | 95.9     | 95.9     | 95.9     | 95.9     | 95.9    | 95.9    | 95.9    | 95.9                             | 72.6       | 88.7      | 90.6     | 93.5     | 94.9     | 95.8     | 95.9     | 95.9     | 95.9     | 95.9     | 95.9     | 95.9     | 95.9    |         |         |         |
| GE 4000   | 72.6      | 88.9     | 91.1     | 94.1     | 95.5     | 96.7     | 96.9     | 96.9     | 96.9     | 96.9     | 96.9     | 96.9    | 96.9    | 96.9    | 96.9                             | 72.6       | 88.9      | 91.1     | 94.1     | 95.5     | 96.7     | 96.9     | 96.9     | 96.9     | 96.9     | 96.9     | 96.9     | 96.9    |         |         |         |
| GE 3000   | 72.6      | 86.9     | 91.1     | 94.2     | 96.11    | 97.0     | 97.3     | 99.3     | 99.4     | 99.4     | 99.4     | 99.4    | 99.4    | 99.4    | 99.4                             | 72.6       | 86.9      | 91.1     | 94.2     | 96.11    | 97.0     | 97.3     | 99.3     | 99.4     | 99.4     | 99.4     | 99.4     | 99.4    |         |         |         |
| GE 2000   | 72.6      | 88.9     | 91.1     | 94.2     | 96.0     | 97.0     | 97.4     | 99.5     | 99.7     | 99.7     | 99.7     | 99.7    | 99.7    | 99.7    | 99.7                             | 72.6       | 88.9      | 91.1     | 94.2     | 96.0     | 97.0     | 97.4     | 99.5     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7    |         |         |         |
| GE 1000   | 72.6      | 88.9     | 91.1     | 94.2     | 96.0     | 97.0     | 97.4     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8                             | 100.0      | 100.0     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |         |         |         |         |
| GE 000  | 72.6      | 88.9     | 91.1     | 94.2     | 96.0     | 97.0     | 97.4     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8                             | 100.0      | 100.0     | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    | 100.0    |         |         |         |         |

TOTAL NUMBER OF OBSERVATIONS: 977

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): 2100-2300

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |      |      |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|------|------|
|                       | 61<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |      |      |
| NO CEIL               | 22.3                             | 31.0     | 33.1     | 35.2     | 36.1     | 36.4     | 36.6     | 36.6     | 36.6     | 36.6     | 36.6     | 36.6    | 36.6    | 36.6    | 36.6    | 36.6 | 36.6 | 36.6 |
| GE 20000              | 29.9                             | 41.6     | 43.9     | 46.3     | 47.2     | 47.5     | 48.1     | 48.3     | 48.3     | 48.3     | 48.3     | 48.3    | 48.3    | 48.3    | 48.3    | 48.3 | 48.3 | 48.4 |
| GE 18000              | 30.0                             | 41.7     | 44.0     | 46.4     | 47.4     | 47.6     | 48.2     | 48.4     | 48.4     | 48.4     | 48.4     | 48.4    | 48.4    | 48.4    | 48.4    | 48.4 | 48.4 | 48.5 |
| GE 16000              | 30.0                             | 41.7     | 44.0     | 46.4     | 47.4     | 47.6     | 48.2     | 48.4     | 48.4     | 48.4     | 48.4     | 48.4    | 48.4    | 48.4    | 48.4    | 48.4 | 48.4 | 48.5 |
| GE 14000              | 30.7                             | 42.6     | 44.9     | 47.3     | 48.3     | 48.5     | 49.1     | 49.3     | 49.3     | 49.3     | 49.3     | 49.3    | 49.3    | 49.3    | 49.3    | 49.3 | 49.3 | 49.4 |
| GE 12000              | 33.2                             | 45.7     | 48.0     | 50.3     | 51.4     | 51.6     | 52.2     | 52.4     | 52.4     | 52.4     | 52.4     | 52.4    | 52.4    | 52.4    | 52.4    | 52.4 | 52.4 | 52.5 |
| GE 10000              | 35.1                             | 48.4     | 50.8     | 54.1     | 55.1     | 55.3     | 55.9     | 56.1     | 56.1     | 56.1     | 56.1     | 56.1    | 56.1    | 56.1    | 56.1    | 56.1 | 56.1 | 56.3 |
| GE 9000               | 36.0                             | 51.1     | 53.8     | 57.3     | 58.7     | 58.5     | 59.1     | 59.3     | 59.3     | 59.3     | 59.3     | 59.3    | 59.3    | 59.3    | 59.3    | 59.3 | 59.3 | 59.4 |
| GE 8000               | 37.0                             | 51.5     | 54.1     | 57.6     | 58.6     | 58.9     | 59.4     | 59.7     | 59.7     | 59.7     | 59.7     | 59.7    | 59.7    | 59.7    | 59.7    | 59.7 | 59.7 | 59.8 |
| GE 7000               | 37.4                             | 52.0     | 54.7     | 58.2     | 59.2     | 59.4     | 60.0     | 60.2     | 60.2     | 60.2     | 60.2     | 60.2    | 60.2    | 60.2    | 60.2    | 60.2 | 60.2 | 60.3 |
| GE 6000               | 38.6                             | 53.4     | 56.0     | 59.9     | 60.9     | 61.1     | 61.7     | 61.9     | 61.9     | 61.9     | 61.9     | 61.9    | 61.9    | 61.9    | 61.9    | 61.9 | 61.9 | 62.0 |
| GE 5000               | 41.7                             | 57.7     | 60.6     | 64.7     | 66.2     | 66.5     | 67.0     | 67.3     | 67.3     | 67.3     | 67.3     | 67.3    | 67.3    | 67.3    | 67.3    | 67.3 | 67.3 | 67.4 |
| GE 4500               | 42.6                             | 59.1     | 62.0     | 66.4     | 68.0     | 68.8     | 69.0     | 69.1     | 69.1     | 69.1     | 69.1     | 69.1    | 69.1    | 69.1    | 69.1    | 69.1 | 69.1 | 69.2 |
| GE 4000               | 43.2                             | 60.3     | 63.3     | 67.6     | 69.4     | 69.7     | 70.2     | 70.5     | 70.6     | 70.6     | 70.6     | 70.6    | 70.6    | 70.6    | 70.6    | 70.6 | 70.6 | 70.7 |
| GE 3500               | 44.5                             | 62.2     | 65.2     | 69.8     | 71.6     | 71.8     | 72.4     | 72.7     | 72.8     | 72.8     | 72.8     | 72.8    | 72.8    | 72.8    | 72.8    | 72.8 | 72.8 | 73.0 |
| GE 3000               | 47.7                             | 66.3     | 69.3     | 74.2     | 76.0     | 76.3     | 76.8     | 77.3     | 77.4     | 77.5     | 77.5     | 77.5    | 77.5    | 77.5    | 77.5    | 77.5 | 77.5 | 77.6 |
| GE 2500               | 48.5                             | 67.4     | 70.6     | 75.7     | 77.6     | 78.5     | 79.0     | 79.1     | 79.2     | 79.2     | 79.2     | 79.2    | 79.2    | 79.2    | 79.2    | 79.2 | 79.2 | 79.3 |
| GE 2000               | 49.5                             | 69.3     | 72.7     | 78.0     | 80.1     | 80.3     | 81.0     | 81.5     | 81.7     | 81.8     | 81.8     | 81.8    | 81.8    | 81.8    | 81.8    | 81.8 | 81.8 | 81.9 |
| GE 1800               | 50.7                             | 71.0     | 74.4     | 79.7     | 81.8     | 82.0     | 82.8     | 83.4     | 83.6     | 83.8     | 83.8     | 83.8    | 83.8    | 83.8    | 83.8    | 83.8 | 83.8 | 83.9 |
| GE 1500               | 51.9                             | 72.7     | 76.1     | 81.5     | 83.6     | 84.1     | 85.0     | 85.6     | 85.6     | 85.8     | 85.9     | 85.9    | 85.9    | 85.9    | 85.9    | 86.0 | 86.0 | 86.1 |
| GE 1200               | 53.0                             | 74.7     | 78.2     | 83.6     | 85.9     | 86.4     | 87.3     | 87.8     | 88.1     | 88.2     | 88.3     | 88.4    | 88.4    | 88.5    | 88.5    | 88.5 | 88.6 | 88.6 |
| GE 1000               | 53.8                             | 75.8     | 76.3     | 84.8     | 87.2     | 87.8     | 88.8     | 89.4     | 89.7     | 89.8     | 89.9     | 90.0    | 90.0    | 90.1    | 90.1    | 90.1 | 90.2 | 90.2 |
| GE 900                | 54.1                             | 76.4     | 79.9     | 85.6     | 88.1     | 88.8     | 89.7     | 90.3     | 90.6     | 90.7     | 90.8     | 90.9    | 90.9    | 91.0    | 91.0    | 91.0 | 91.1 | 91.1 |
| GE 800                | 54.3                             | 76.8     | 80.7     | 86.5     | 89.2     | 90.0     | 90.9     | 91.6     | 91.8     | 91.9     | 92.0     | 92.2    | 92.2    | 92.3    | 92.3    | 92.3 | 92.4 | 92.4 |
| GE 700                | 54.4                             | 77.2     | 81.1     | 87.2     | 89.9     | 90.7     | 91.6     | 92.4     | 92.7     | 92.8     | 93.0     | 93.1    | 93.1    | 93.2    | 93.2    | 93.2 | 93.3 | 93.3 |
| GE 600                | 54.5                             | 77.5     | 81.6     | 87.6     | 90.6     | 91.5     | 92.4     | 93.2     | 93.5     | 93.6     | 93.9     | 94.0    | 94.0    | 94.1    | 94.1    | 94.1 | 94.2 | 94.2 |
| GE 500                | 54.5                             | 77.5     | 81.9     | 88.1     | 91.5     | 92.4     | 93.3     | 94.2     | 94.5     | 94.7     | 94.9     | 95.0    | 95.0    | 95.1    | 95.1    | 95.1 | 95.2 | 95.2 |
| GE 400                | 54.5                             | 77.7     | 82.3     | 88.8     | 92.4     | 93.5     | 94.4     | 95.3     | 95.7     | 95.8     | 96.0     | 96.1    | 96.1    | 96.3    | 96.3    | 96.3 | 96.4 | 96.4 |
| GE 300                | 54.5                             | 77.8     | 82.4     | 89.1     | 93.0     | 94.1     | 95.0     | 96.1     | 96.5     | 96.6     | 96.8     | 96.9    | 96.9    | 97.0    | 97.0    | 97.0 | 97.1 | 97.2 |
| GE 200                | 54.5                             | 78.0     | 82.5     | 89.2     | 93.2     | 94.7     | 95.7     | 97.0     | 97.5     | 97.8     | 98.2     | 98.3    | 98.3    | 98.4    | 98.4    | 98.4 | 98.5 | 98.5 |
| GE 100                | 54.5                             | 78.0     | 82.6     | 89.3     | 93.3     | 94.8     | 95.9     | 97.4     | 98.0     | 98.4     | 98.9     | 99.0    | 99.1    | 99.2    | 99.2    | 99.2 | 99.3 | 99.4 |
| GE 0                  | 54.5                             | 78.0     | 82.6     | 89.3     | 93.3     | 94.8     | 95.9     | 97.4     | 98.0     | 98.5     | 98.9     | 99.1    | 99.2    | 99.2    | 99.2    | 99.2 | 99.3 | 99.4 |

TOTAL NUMBER OF OBSERVATIONS: 880

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 03746C STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN HOURS(LST): ALL

| CEILING<br>IN<br>FLEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |  |  |
|------------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|--|--|
|                        | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |  |  |
| NO CEIL                | 18.0                             | 24.2     | 25.3     | 26.8     | 27.0     | 28.4     | 28.8     | 29.3     | 29.4     | 29.5     | 29.6     | 29.7    | 29.8    | 29.8    | 29.9    | 30.1  |  |  |  |
| GE 20000               | 26.6                             | 34.0     | 35.4     | 37.3     | 38.5     | 39.2     | 39.7     | 40.4     | 40.5     | 40.7     | 40.8     | 40.9    | 41.0    | 41.1    | 41.1    | 41.4  |  |  |  |
| GE 18000               | 26.7                             | 34.1     | 35.4     | 37.4     | 38.6     | 39.3     | 39.8     | 40.4     | 40.6     | 40.7     | 40.8     | 40.9    | 41.0    | 41.2    | 41.2    | 41.5  |  |  |  |
| GE 16000               | 26.7                             | 34.1     | 35.5     | 37.4     | 38.6     | 39.3     | 39.8     | 40.5     | 40.6     | 40.8     | 40.9     | 41.0    | 41.1    | 41.2    | 41.2    | 41.5  |  |  |  |
| GE 14000               | 27.2                             | 34.8     | 36.3     | 38.2     | 39.4     | 40.1     | 40.6     | 41.3     | 41.4     | 41.6     | 41.6     | 41.7    | 41.9    | 42.0    | 42.0    | 42.3  |  |  |  |
| GE 12000               | 28.4                             | 36.4     | 37.9     | 39.8     | 41.0     | 41.7     | 42.2     | 42.9     | 43.1     | 43.2     | 43.3     | 43.4    | 43.5    | 43.7    | 43.7    | 44.0  |  |  |  |
| GE 10000               | 30.7                             | 39.4     | 41.0     | 43.3     | 44.7     | 45.4     | 45.9     | 46.6     | 46.8     | 47.0     | 47.1     | 47.2    | 47.3    | 47.4    | 47.5    | 47.7  |  |  |  |
| GE 9000                | 31.9                             | 41.4     | 43.0     | 45.5     | 46.9     | 47.6     | 48.2     | 49.0     | 49.2     | 49.4     | 49.5     | 49.6    | 49.7    | 49.8    | 49.9    | 50.1  |  |  |  |
| GE 8000                | 32.3                             | 41.9     | 43.6     | 46.1     | 47.5     | 48.3     | 48.8     | 49.7     | 49.8     | 50.0     | 50.1     | 50.2    | 50.3    | 50.5    | 50.5    | 50.8  |  |  |  |
| GE 7000                | 32.7                             | 42.4     | 44.1     | 46.6     | 48.1     | 48.8     | 49.4     | 50.3     | 50.5     | 50.6     | 50.7     | 50.8    | 51.0    | 51.1    | 51.1    | 51.4  |  |  |  |
| GE 6000                | 34.3                             | 44.3     | 46.1     | 48.6     | 50.1     | 50.9     | 51.5     | 52.4     | 52.6     | 52.8     | 53.0     | 53.1    | 53.2    | 53.3    | 53.5    | 53.5  |  |  |  |
| GE 5000                | 39.0                             | 50.0     | 51.8     | 54.6     | 56.3     | 57.1     | 57.7     | 58.6     | 58.8     | 59.0     | 59.1     | 59.2    | 59.3    | 59.5    | 59.5    | 59.8  |  |  |  |
| GE 4500                | 42.1                             | 53.5     | 55.5     | 58.3     | 60.0     | 60.9     | 61.5     | 62.4     | 62.6     | 62.8     | 62.9     | 63.0    | 63.1    | 63.3    | 63.4    | 63.6  |  |  |  |
| GE 4000                | 44.1                             | 56.2     | 58.2     | 61.2     | 63.0     | 63.8     | 64.5     | 65.4     | 65.6     | 65.8     | 65.9     | 66.0    | 66.2    | 66.4    | 66.4    | 66.7  |  |  |  |
| GE 3500                | 45.6                             | 58.0     | 60.0     | 63.1     | 64.9     | 65.8     | 66.4     | 67.0     | 67.6     | 67.8     | 67.9     | 68.0    | 68.2    | 68.4    | 68.4    | 68.6  |  |  |  |
| GE 3000                | 48.3                             | 61.3     | 63.6     | 66.8     | 68.7     | 69.6     | 70.3     | 71.3     | 71.5     | 71.7     | 71.8     | 71.9    | 72.1    | 72.3    | 72.3    | 72.6  |  |  |  |
| GE 2500                | 50.5                             | 64.0     | 66.3     | 69.7     | 71.6     | 72.6     | 73.3     | 74.3     | 74.5     | 74.7     | 74.8     | 74.9    | 75.1    | 75.3    | 75.3    | 75.5  |  |  |  |
| GE 2000                | 52.7                             | 67.0     | 69.5     | 72.9     | 75.0     | 75.9     | 76.7     | 77.7     | 78.0     | 78.2     | 78.4     | 78.5    | 78.7    | 79.7    | 79.7    | 79.8  |  |  |  |
| GE 1800                | 53.7                             | 68.4     | 71.0     | 74.5     | 76.6     | 77.5     | 78.3     | 79.3     | 79.6     | 79.8     | 79.9     | 80.0    | 80.2    | 80.4    | 80.4    | 80.6  |  |  |  |
| GE 1500                | 55.4                             | 70.7     | 73.3     | 77.0     | 79.1     | 80.1     | 80.8     | 81.9     | 82.2     | 82.4     | 82.5     | 82.6    | 82.8    | 83.0    | 83.0    | 83.2  |  |  |  |
| GE 1200                | 56.9                             | 73.3     | 76.0     | 79.9     | 82.1     | 83.2     | 84.0     | 85.2     | 85.5     | 85.7     | 85.8     | 86.0    | 86.1    | 86.3    | 86.3    | 86.6  |  |  |  |
| GE 1000                | 57.8                             | 74.8     | 77.6     | 81.7     | 84.1     | 85.4     | 86.2     | 87.4     | 87.7     | 87.9     | 88.0     | 88.2    | 88.3    | 88.5    | 88.6    | 88.8  |  |  |  |
| GE 900                 | 58.1                             | 75.4     | 78.3     | 82.4     | 84.9     | 86.2     | 87.0     | 88.3     | 88.6     | 88.8     | 88.9     | 89.1    | 89.2    | 89.4    | 89.4    | 89.7  |  |  |  |
| GE 800                 | 58.3                             | 75.9     | 78.9     | 83.2     | 85.7     | 87.0     | 87.9     | 89.2     | 89.5     | 89.7     | 89.8     | 90.0    | 90.1    | 90.3    | 90.4    | 90.6  |  |  |  |
| GE 700                 | 58.5                             | 76.6     | 79.7     | 84.1     | 86.4     | 88.1     | 89.0     | 90.4     | 90.7     | 91.0     | 91.1     | 91.2    | 91.4    | 91.6    | 91.6    | 91.9  |  |  |  |
| GE 600                 | 58.8                             | 77.3     | 80.6     | 85.2     | 87.9     | 89.3     | 90.3     | 91.7     | 92.1     | 92.3     | 92.4     | 92.6    | 92.7    | 92.9    | 93.0    | 93.2  |  |  |  |
| GE 500                 | 58.9                             | 77.6     | 80.9     | 85.6     | 88.6     | 90.1     | 91.2     | 92.7     | 93.1     | 93.3     | 93.4     | 93.6    | 93.8    | 94.0    | 94.0    | 94.2  |  |  |  |
| GE 400                 | 59.0                             | 77.9     | 81.3     | 86.3     | 89.6     | 91.2     | 92.5     | 94.1     | 94.6     | 94.8     | 95.0     | 95.1    | 95.3    | 95.5    | 95.5    | 95.8  |  |  |  |
| GE 300                 | 59.0                             | 78.0     | 81.5     | 86.6     | 90.1     | 91.9     | 93.2     | 95.1     | 95.7     | 95.9     | 96.0     | 96.2    | 96.4    | 96.6    | 96.6    | 96.8  |  |  |  |
| GE 200                 | 59.0                             | 78.1     | 81.6     | 86.8     | 90.5     | 92.3     | 93.7     | 95.9     | 96.5     | 96.8     | 97.0     | 97.1    | 97.3    | 97.5    | 97.5    | 97.8  |  |  |  |
| GE 100                 | 59.0                             | 78.1     | 81.6     | 86.9     | 90.7     | 92.6     | 94.1     | 96.4     | 97.0     | 97.5     | 97.7     | 97.9    | 98.1    | 98.5    | 98.6    | 99.0  |  |  |  |
| GE                     | 59.7                             | 78.1     | 81.6     | 86.9     | 90.7     | 92.6     | 94.1     | 96.4     | 97.1     | 97.6     | 97.9     | 98.1    | 98.4    | 99.0    | 99.1    | 100.0 |  |  |  |

TOTAL NUMBER OF OBSERVATIONS: 7059

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CLOUDING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0000-0200

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |  |
| NO CEIL               | 22.7                             | 33.1     | 35.5     | 38.7     | 40.0     | 41.5     | 42.1     | 43.7     | 44.3     | 44.7     | 45.0     | 45.0    | 45.0    | 45.2    | 45.2    | 45.3  |  |  |
| GE 20000              | 26.7                             | 39.7     | 42.6     | 46.5     | 48.1     | 49.9     | 50.9     | 52.4     | 53.1     | 53.4     | 53.8     | 53.8    | 54.0    | 54.0    | 54.0    | 54.1  |  |  |
| GE 18000              | 26.7                             | 39.7     | 42.6     | 46.5     | 48.1     | 49.9     | 50.9     | 52.4     | 53.1     | 53.4     | 53.8     | 53.8    | 54.0    | 54.0    | 54.0    | 54.1  |  |  |
| GE 16000              | 26.7                             | 39.7     | 42.6     | 46.5     | 48.1     | 49.9     | 50.9     | 52.4     | 53.1     | 53.4     | 53.8     | 53.8    | 54.0    | 54.0    | 54.0    | 54.1  |  |  |
| GE 14000              | 26.7                             | 39.8     | 42.7     | 46.6     | 48.3     | 50.1     | 51.1     | 52.7     | 53.3     | 53.7     | 54.0     | 54.0    | 54.0    | 54.2    | 54.2    | 54.3  |  |  |
| GE 12000              | 27.7                             | 41.4     | 44.2     | 48.2     | 50.1     | 52.0     | 53.0     | 54.5     | 55.2     | 55.7     | 56.0     | 56.0    | 56.2    | 56.2    | 56.2    | 56.3  |  |  |
| GE 10000              | 29.6                             | 44.5     | 47.6     | 51.9     | 54.3     | 56.4     | 57.4     | 59.0     | 59.6     | 60.1     | 60.4     | 60.4    | 60.6    | 60.6    | 60.6    | 60.8  |  |  |
| GE 9000               | 30.3                             | 45.5     | 48.8     | 53.2     | 56.0     | 58.1     | 59.3     | 60.9     | 61.5     | 62.0     | 62.3     | 62.3    | 62.5    | 62.5    | 62.5    | 62.6  |  |  |
| GE 8000               | 30.3                             | 45.6     | 48.9     | 53.3     | 56.1     | 58.2     | 59.4     | 61.0     | 61.6     | 62.1     | 62.4     | 62.4    | 62.6    | 62.6    | 62.6    | 62.7  |  |  |
| GE 7000               | 30.3                             | 45.6     | 48.9     | 53.3     | 56.2     | 58.3     | 59.5     | 61.1     | 61.8     | 62.2     | 62.5     | 62.5    | 62.7    | 62.7    | 62.7    | 62.9  |  |  |
| GE 6000               | 30.7                             | 46.1     | 49.4     | 54.0     | 56.7     | 59.0     | 60.2     | 61.8     | 62.4     | 62.9     | 63.2     | 63.2    | 63.4    | 63.4    | 63.4    | 63.5  |  |  |
| GE 5000               | 32.9                             | 49.0     | 52.7     | 57.5     | 60.5     | 62.6     | 64.1     | 65.7     | 66.4     | 66.9     | 67.2     | 67.2    | 67.4    | 67.4    | 67.4    | 67.5  |  |  |
| GE 4500               | 33.8                             | 50.6     | 54.2     | 59.3     | 62.3     | 64.4     | 65.9     | 67.5     | 68.2     | 68.6     | 69.0     | 69.0    | 69.2    | 69.2    | 69.2    | 69.3  |  |  |
| GE 4000               | 34.1                             | 51.3     | 55.1     | 60.3     | 63.3     | 65.4     | 66.9     | 68.6     | 69.3     | 69.7     | 70.1     | 70.1    | 70.3    | 70.3    | 70.3    | 70.4  |  |  |
| GE 3500               | 35.5                             | 52.9     | 56.7     | 61.9     | 64.9     | 67.1     | 68.6     | 70.4     | 71.1     | 71.5     | 71.8     | 71.8    | 72.1    | 72.1    | 72.1    | 72.2  |  |  |
| GE 3000               | 37.5                             | 55.3     | 59.1     | 64.3     | 67.4     | 69.7     | 71.3     | 73.1     | 73.7     | 74.2     | 74.5     | 74.5    | 74.7    | 74.7    | 74.7    | 74.8  |  |  |
| GE 2500               | 39.4                             | 57.8     | 61.6     | 67.1     | 70.2     | 72.6     | 74.3     | 76.1     | 76.7     | 77.2     | 77.5     | 77.5    | 77.7    | 77.7    | 77.7    | 77.8  |  |  |
| GE 2000               | 40.9                             | 59.9     | 64.0     | 69.4     | 72.5     | 74.9     | 76.7     | 78.5     | 79.2     | 79.6     | 79.9     | 79.9    | 80.2    | 80.2    | 80.2    | 80.3  |  |  |
| GE 1800               | 40.9                             | 60.0     | 64.2     | 70.0     | 73.1     | 75.5     | 77.3     | 79.0     | 79.7     | 80.2     | 80.5     | 80.5    | 80.7    | 80.7    | 80.7    | 80.8  |  |  |
| GE 1500               | 41.7                             | 61.3     | 65.5     | 71.5     | 74.7     | 77.2     | 78.9     | 80.8     | 81.5     | 81.9     | 82.3     | 82.3    | 82.5    | 82.5    | 82.5    | 82.6  |  |  |
| GE 1200               | 43.3                             | 63.9     | 68.1     | 74.1     | 77.3     | 79.8     | 81.6     | 83.6     | 84.3     | 84.7     | 85.0     | 85.0    | 85.3    | 85.3    | 85.3    | 85.4  |  |  |
| GE 1000               | 44.2                             | 65.1     | 69.3     | 75.3     | 78.6     | 81.4     | 83.1     | 85.1     | 85.8     | 86.3     | 86.6     | 86.6    | 86.8    | 86.8    | 86.8    | 86.9  |  |  |
| GE 900                | 44.8                             | 66.0     | 70.2     | 76.3     | 79.6     | 82.4     | 84.1     | 86.1     | 86.8     | 87.3     | 87.6     | 87.6    | 87.8    | 87.8    | 87.8    | 87.9  |  |  |
| GE 800                | 45.1                             | 66.4     | 70.6     | 76.7     | 80.0     | 82.8     | 84.6     | 86.6     | 87.3     | 87.7     | 88.0     | 88.0    | 88.2    | 88.2    | 88.2    | 88.4  |  |  |
| GE 700                | 45.3                             | 67.3     | 72.0     | 78.2     | 81.6     | 84.3     | 86.0     | 88.0     | 88.7     | 89.1     | 89.5     | 89.5    | 89.7    | 89.7    | 89.7    | 89.8  |  |  |
| GE 600                | 45.9                             | 68.4     | 73.3     | 79.6     | 83.0     | 86.1     | 88.0     | 90.0     | 90.7     | 91.1     | 91.5     | 91.5    | 91.7    | 91.7    | 91.7    | 91.8  |  |  |
| GE 500                | 46.0                             | 69.0     | 73.8     | 80.3     | 83.7     | 86.8     | 88.7     | 90.8     | 91.5     | 91.9     | 92.2     | 92.2    | 92.5    | 92.5    | 92.5    | 92.6  |  |  |
| GE 400                | 46.0                             | 70.0     | 74.9     | 81.8     | 85.3     | 88.5     | 90.6     | 92.9     | 93.6     | 94.0     | 94.3     | 94.3    | 94.6    | 94.6    | 94.6    | 94.7  |  |  |
| GE 300                | 46.2                             | 71.1     | 76.5     | 83.8     | 87.7     | 90.7     | 92.9     | 95.6     | 96.2     | 96.6     | 97.0     | 97.0    | 97.2    | 97.2    | 97.2    | 97.3  |  |  |
| GE 200                | 46.2                             | 71.2     | 76.6     | 84.0     | 87.6     | 91.2     | 93.5     | 96.5     | 97.1     | 97.6     | 97.9     | 97.9    | 98.1    | 98.1    | 98.1    | 98.2  |  |  |
| GE 100                | 46.3                             | 71.3     | 76.7     | 84.3     | 88.0     | 91.8     | 94.0     | 97.1     | 98.1     | 98.6     | 99.1     | 99.1    | 99.3    | 99.3    | 99.3    | 99.4  |  |  |
| GE 0                  | 46.3                             | 71.3     | 76.7     | 84.3     | 88.0     | 91.8     | 94.0     | 97.1     | 98.1     | 98.6     | 99.1     | 99.1    | 99.3    | 99.3    | 99.3    | 100.0 |  |  |

TOTAL NUMBER OF OBSERVATIONS: 902

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(SLT): 0300-0500

| CEILING<br>IN<br>FEET | NO CEIL | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |  |
|-----------------------|---------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|--|
|                       |         | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GL<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>6 |  |  |  |
| GE 20000              | 16.4    | 25.2                             | 28.4     | 31.7     | 34.2     | 36.0     | 37.1     | 38.7     | 39.6     | 40.2     | 40.9     | 41.1     | 41.5    | 42.1    | 42.3    | 43.4    |  |  |  |
| GE 18000              | 16.4    | 25.2                             | 29.4     | 31.7     | 34.2     | 36.0     | 37.1     | 38.7     | 39.6     | 40.2     | 40.9     | 41.1     | 41.5    | 42.1    | 42.3    | 43.4    |  |  |  |
| GE 16000              | 16.5    | 25.3                             | 28.5     | 31.8     | 34.3     | 36.1     | 37.2     | 38.8     | 39.8     | 40.3     | 41.0     | 41.2     | 41.6    | 42.2    | 42.4    | 43.5    |  |  |  |
| GE 14000              | 17.1    | 26.0                             | 29.2     | 32.5     | 35.0     | 36.9     | 38.1     | 39.8     | 40.7     | 41.3     | 41.9     | 42.3     | 42.7    | 43.3    | 43.5    | 44.6    |  |  |  |
| GE 12000              | 18.2    | 27.5                             | 30.9     | 34.3     | 36.8     | 38.7     | 40.0     | 41.7     | 42.7     | 43.3     | 47.9     | 49.2     | 49.7    | 49.5    | 45.6    | 46.7    |  |  |  |
| GE 10000              | 19.4    | 29.7                             | 33.2     | 36.9     | 39.5     | 41.5     | 42.9     | 44.7     | 45.7     | 46.2     | 46.9     | 47.2     | 47.6    | 48.2    | 48.5    | 49.6    |  |  |  |
| GE 9000               | 19.9    | 30.4                             | 34.1     | 38.0     | 41.0     | 42.9     | 44.8     | 46.8     | 47.8     | 48.3     | 49.0     | 49.3     | 49.7    | 50.4    | 50.7    | 51.8    |  |  |  |
| GE 8000               | 20.0    | 30.7                             | 34.3     | 38.2     | 41.2     | 43.2     | 45.1     | 47.1     | 48.1     | 48.6     | 49.7     | 49.6     | 50.1    | 50.7    | 51.0    | 52.1    |  |  |  |
| GE 7000               | 20.2    | 31.1                             | 34.8     | 38.8     | 41.7     | 43.7     | 45.7     | 47.8     | 48.7     | 49.3     | 49.9     | 50.3     | 50.7    | 51.4    | 51.7    | 52.8    |  |  |  |
| GE 6000               | 20.7    | 31.8                             | 35.6     | 39.6     | 42.6     | 44.6     | 46.7     | 48.7     | 49.8     | 50.4     | 51.0     | 51.4     | 51.8    | 52.5    | 52.8    | 53.9    |  |  |  |
| GE 5000               | 23.0    | 34.3                             | 39.1     | 42.3     | 45.2     | 47.2     | 49.5     | 51.6     | 52.8     | 53.7     | 54.3     | 54.7     | 55.1    | 55.8    | 56.1    | 57.2    |  |  |  |
| GE 4500               | 24.2    | 36.5                             | 40.4     | 44.9     | 48.0     | 50.1     | 52.4     | 54.4     | 55.6     | 56.5     | 57.2     | 57.5     | 57.9    | 58.6    | 58.9    | 60.0    |  |  |  |
| GE 4000               | 24.6    | 37.2                             | 41.3     | 45.9     | 49.7     | 51.0     | 53.5     | 55.5     | 56.8     | 57.7     | 58.4     | 58.7     | 59.1    | 59.8    | 60.1    | 61.2    |  |  |  |
| GE 3500               | 25.8    | 38.9                             | 43.2     | 48.0     | 51.0     | 53.1     | 55.5     | 57.6     | 59.0     | 59.9     | 60.6     | 60.9     | 61.3    | 62.0    | 62.3    | 63.4    |  |  |  |
| GE 3000               | 28.7    | 41.9                             | 46.3     | 51.5     | 54.7     | 56.8     | 59.4     | 61.4     | 62.9     | 63.7     | 64.4     | 64.7     | 65.2    | 65.8    | 66.2    | 67.3    |  |  |  |
| GE 2500               | 30.1    | 43.9                             | 48.4     | 53.8     | 57.1     | 59.3     | 61.8     | 63.9     | 65.3     | 66.3     | 66.9     | 67.3     | 67.7    | 68.3    | 68.7    | 69.8    |  |  |  |
| GE 2000               | 32.3    | 47.2                             | 51.9     | 57.5     | 61.1     | 63.3     | 65.8     | 68.1     | 69.6     | 70.5     | 71.2     | 71.5     | 72.0    | 72.6    | 72.9    | 74.0    |  |  |  |
| GE 1800               | 33.0    | 48.1                             | 52.8     | 58.4     | 62.0     | 64.2     | 66.7     | 69.0     | 70.4     | 71.4     | 72.1     | 72.4     | 72.8    | 73.5    | 73.8    | 74.9    |  |  |  |
| GE 1500               | 33.7    | 49.2                             | 53.9     | 59.6     | 63.3     | 65.5     | 68.1     | 70.4     | 71.9     | 72.8     | 73.4     | 73.8     | 74.3    | 74.9    | 75.2    | 76.3    |  |  |  |
| GE 1200               | 34.8    | 50.6                             | 55.4     | 61.6     | 65.4     | 67.8     | 70.4     | 72.7     | 74.3     | 75.2     | 75.9     | 76.2     | 76.7    | 77.3    | 77.7    | 78.8    |  |  |  |
| GE 1000               | 35.5    | 51.8                             | 56.7     | 63.0     | 67.0     | 69.4     | 72.1     | 74.4     | 76.9     | 77.0     | 77.7     | 78.0     | 78.4    | 79.1    | 79.4    | 80.5    |  |  |  |
| GE 900                | 36.0    | 52.7                             | 57.6     | 63.9     | 68.1     | 70.5     | 73.2     | 75.5     | 77.0     | 78.1     | 78.8     | 79.1     | 79.5    | 80.2    | 80.5    | 81.6    |  |  |  |
| GE 800                | 36.6    | 53.3                             | 58.3     | 64.6     | 68.9     | 71.3     | 73.9     | 76.2     | 77.8     | 78.9     | 79.5     | 79.8     | 80.3    | 80.9    | 81.3    | 82.4    |  |  |  |
| GE 700                | 36.8    | 54.5                             | 59.6     | 66.2     | 70.4     | 72.9     | 75.7     | 78.1     | 79.6     | 80.8     | 81.5     | 81.8     | 82.3    | 82.9    | 83.2    | 84.3    |  |  |  |
| GE 600                | 37.5    | 56.2                             | 61.3     | 68.3     | 72.0     | 75.7     | 78.5     | 80.9     | 82.5     | 83.7     | 84.3     | 84.7     | 85.1    | 85.8    | 86.1    | 87.3    |  |  |  |
| GE 500                | 37.7    | 57.7                             | 63.1     | 70.9     | 75.5     | 78.3     | 81.2     | 83.9     | 85.4     | 86.6     | 87.3     | 87.6     | 88.1    | 88.7    | 89.0    | 90.3    |  |  |  |
| GE 400                | 37.8    | 57.8                             | 63.3     | 71.5     | 76.5     | 79.3     | 82.1     | 85.2     | 86.7     | 88.0     | 88.6     | 88.9     | 89.4    | 90.0    | 90.4    | 91.6    |  |  |  |
| GE 300                | 37.8    | 58.1                             | 64.0     | 72.6     | 78.0     | 80.9     | 83.8     | 87.1     | 88.6     | 89.8     | 90.5     | 90.9     | 91.3    | 92.0    | 92.3    | 93.5    |  |  |  |
| GE 200                | 37.8    | 58.2                             | 64.2     | 73.3     | 79.2     | 82.9     | 85.9     | 89.4     | 91.1     | 92.6     | 97.2     | 93.6     | 94.1    | 94.7    | 95.1    | 96.3    |  |  |  |
| GE 100                | 37.8    | 58.4                             | 64.4     | 73.5     | 79.4     | 83.4     | 86.3     | 90.0     | 91.8     | 93.3     | 94.7     | 94.6     | 95.2    | 96.2    | 96.6    | 96.0    |  |  |  |
| GE 0                  | 37.8    | 58.4                             | 64.4     | 73.5     | 79.4     | 83.4     | 86.3     | 90.0     | 91.8     | 93.4     | 94.5     | 95.0     | 95.6    | 96.9    | 97.4    | 100.0   |  |  |  |

TOTAL NUMBER OF OBSERVATIONS: 913

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 0600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |
| NO CEIL               | 13.1                             | 18.8     | 20.0     | 21.3     | 23.7     | 24.0     | 24.8     | 26.3     | 26.9     | 27.0     | 27.3     | 27.4    | 27.7    | 27.7    | 27.8    | 27.9  |
| GE 20000              | 17.4                             | 25.1     | 26.7     | 28.2     | 31.1     | 31.7     | 32.8     | 34.8     | 35.7     | 35.8     | 36.1     | 36.2    | 36.4    | 36.6    | 36.8    |       |
| GE 18000              | 17.4                             | 25.1     | 26.7     | 28.2     | 31.1     | 31.7     | 32.8     | 34.8     | 35.7     | 35.8     | 36.1     | 36.2    | 36.4    | 36.6    | 36.8    |       |
| GE 16000              | 17.4                             | 25.1     | 26.7     | 28.2     | 31.1     | 31.7     | 32.8     | 34.8     | 35.7     | 35.8     | 36.1     | 36.2    | 36.4    | 36.6    | 36.8    |       |
| GE 14000              | 18.0                             | 25.8     | 27.3     | 29.0     | 31.9     | 32.4     | 33.7     | 35.7     | 36.8     | 36.9     | 37.2     | 37.3    | 37.6    | 37.7    | 37.9    |       |
| GE 12000              | 18.9                             | 27.0     | 28.7     | 30.7     | 33.8     | 34.3     | 35.6     | 37.6     | 38.8     | 39.0     | 39.7     | 39.8    | 39.8    | 39.9    | 40.1    |       |
| GF 10000              | 21.4                             | 31.2     | 33.0     | 35.1     | 38.3     | 39.0     | 40.3     | 42.6     | 43.9     | 44.1     | 44.4     | 44.6    | 44.8    | 44.9    | 45.0    | 45.2  |
| GE 9000               | 22.0                             | 32.1     | 34.1     | 36.2     | 40.0     | 40.9     | 42.3     | 44.6     | 45.9     | 46.1     | 46.4     | 46.6    | 46.8    | 46.9    | 47.0    | 47.2  |
| GE 8000               | 22.2                             | 32.4     | 34.4     | 36.8     | 40.7     | 41.6     | 43.0     | 45.2     | 46.6     | 46.8     | 47.1     | 47.2    | 47.4    | 47.6    | 47.7    | 47.9  |
| GF 7000               | 22.4                             | 32.9     | 34.9     | 37.2     | 41.1     | 42.0     | 43.4     | 45.7     | 47.0     | 47.2     | 47.6     | 47.7    | 47.9    | 48.0    | 48.1    | 48.3  |
| GF 6000               | 23.8                             | 34.2     | 36.2     | 38.6     | 42.0     | 43.3     | 44.8     | 47.0     | 48.4     | 48.7     | 49.0     | 49.1    | 49.3    | 49.6    | 49.7    | 49.9  |
| GE 5000               | 25.4                             | 36.1     | 38.1     | 40.4     | 44.3     | 45.3     | 46.9     | 49.1     | 50.6     | 50.8     | 51.1     | 51.2    | 51.4    | 51.7    | 51.8    | 52.0  |
| GE 4500               | 26.9                             | 38.3     | 40.4     | 43.0     | 47.0     | 48.0     | 49.7     | 51.9     | 53.4     | 53.7     | 54.0     | 54.1    | 54.3    | 54.6    | 54.7    | 54.9  |
| GF 4000               | 27.9                             | 39.6     | 41.8     | 44.6     | 48.6     | 49.6     | 51.2     | 53.4     | 55.0     | 55.2     | 55.6     | 55.7    | 55.9    | 56.1    | 56.2    | 56.4  |
| GE 3500               | 29.3                             | 41.2     | 43.4     | 46.4     | 50.6     | 51.6     | 53.2     | 55.4     | 57.0     | 57.2     | 57.6     | 57.7    | 57.9    | 58.1    | 58.2    | 58.4  |
| GE 3000               | 31.0                             | 43.7     | 45.9     | 49.0     | 53.1     | 54.1     | 55.9     | 58.1     | 59.7     | 60.0     | 60.7     | 60.7    | 60.9    | 61.0    | 61.2    |       |
| GF 2500               | 34.0                             | 46.9     | 49.1     | 52.3     | 56.6     | 57.6     | 59.3     | 61.6     | 63.1     | 63.4     | 63.8     | 63.9    | 64.1    | 64.3    | 64.4    | 64.7  |
| GF 2000               | 36.2                             | 49.4     | 51.8     | 55.0     | 59.2     | 60.2     | 62.0     | 64.2     | 65.8     | 66.1     | 66.4     | 66.6    | 66.8    | 67.0    | 67.1    | 67.3  |
| GE 1800               | 37.8                             | 51.4     | 53.8     | 57.0     | 61.2     | 62.2     | 64.0     | 66.2     | 67.8     | 68.1     | 68.4     | 68.6    | 68.8    | 69.0    | 69.1    | 69.3  |
| GE 1700               | 39.6                             | 53.8     | 56.1     | 59.6     | 63.9     | 65.0     | 66.8     | 69.0     | 70.6     | 70.9     | 71.2     | 71.3    | 71.6    | 71.8    | 71.9    | 72.1  |
| GF 1200               | 41.2                             | 56.1     | 58.6     | 62.0     | 66.3     | 67.6     | 69.3     | 71.6     | 73.1     | 73.4     | 77.6     | 73.9    | 74.1    | 74.3    | 74.4    | 74.7  |
| GE 1000               | 42.4                             | 58.3     | 60.8     | 64.2     | 68.7     | 70.0     | 71.9     | 74.1     | 75.4     | 76.1     | 76.4     | 76.6    | 76.8    | 77.0    | 77.1    | 77.3  |
| GE 900                | 43.4                             | 59.8     | 62.4     | 66.0     | 70.4     | 71.8     | 73.7     | 75.9     | 77.6     | 77.9     | 78.2     | 78.3    | 78.6    | 78.8    | 78.9    | 79.1  |
| GF 800                | 43.8                             | 60.7     | 63.3     | 66.9     | 71.6     | 73.0     | 74.9     | 77.1     | 78.8     | 79.1     | 79.4     | 79.6    | 79.8    | 80.0    | 80.1    | 80.3  |
| GE 700                | 44.7                             | 62.2     | 65.1     | 69.0     | 74.0     | 75.6     | 77.4     | 79.7     | 81.3     | 81.7     | 82.0     | 82.1    | 82.3    | 82.6    | 82.7    | 82.9  |
| GF 600                | 45.9                             | 64.0     | 67.0     | 71.6     | 76.7     | 78.7     | 80.7     | 82.9     | 84.6     | 84.9     | 85.2     | 85.3    | 85.6    | 85.8    | 85.9    | 86.1  |
| GE 500                | 46.7                             | 66.2     | 69.2     | 74.2     | 79.6     | 81.9     | 84.0     | 86.3     | 88.1     | 88.4     | 88.9     | 89.1    | 89.3    | 89.4    | 89.7    |       |
| GE 400                | 46.9                             | 66.7     | 70.0     | 75.2     | 81.1     | 83.6     | 85.9     | 88.7     | 90.4     | 91.0     | 91.3     | 91.4    | 91.7    | 91.9    | 92.0    | 92.2  |
| GE 300                | 47.0                             | 67.3     | 71.0     | 76.4     | 82.7     | 85.3     | 87.9     | 91.0     | 92.8     | 93.3     | 93.7     | 93.8    | 94.0    | 94.2    | 94.3    | 94.6  |
| GE 200                | 47.0                             | 67.6     | 71.3     | 76.9     | 83.7     | 86.4     | 89.1     | 92.3     | 94.4     | 95.1     | 95.6     | 95.7    | 95.9    | 96.1    | 96.2    | 96.4  |
| GE 100                | 47.0                             | 67.6     | 71.3     | 76.9     | 83.8     | 86.7     | 89.4     | 92.7     | 95.1     | 96.0     | 96.4     | 96.6    | 96.8    | 97.4    | 97.6    | 98.1  |
| GF 0                  | 47.0                             | 67.6     | 71.3     | 76.9     | 83.8     | 86.7     | 89.4     | 92.8     | 95.2     | 96.2     | 96.7     | 96.9    | 97.1    | 98.2    | 98.4    | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(EST): 0900-1100

| CEILING<br>IN<br>FEET | NO   | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |      |      |
|-----------------------|------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|------|------|
|                       |      | GT<br>160                        | GE<br>90 | GE<br>90 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GL<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |      |      |
| CE 20000              | 23.1 | 30.7                             | 32.3     | 33.3     | 34.3     | 34.8     | 35.4     | 35.7     | 35.7     | 35.7     | 35.7     | 35.7     | 35.7    | 35.7    | 35.7    | 35.7    | 35.7 | 35.7 | 35.7 |
| GE 18000              | 23.2 | 30.8                             | 32.4     | 33.4     | 34.4     | 34.9     | 35.5     | 35.8     | 35.8     | 35.8     | 35.8     | 35.8     | 35.8    | 35.8    | 35.8    | 35.8    | 35.8 | 35.8 | 35.8 |
| GE 16000              | 23.4 | 31.0                             | 32.6     | 33.6     | 34.6     | 35.2     | 35.7     | 36.0     | 36.0     | 36.0     | 36.0     | 36.0     | 36.0    | 36.0    | 36.0    | 36.0    | 36.0 | 36.0 | 36.0 |
| GE 14000              | 23.7 | 31.3                             | 33.0     | 34.1     | 35.1     | 35.6     | 36.3     | 36.6     | 36.6     | 36.6     | 36.6     | 36.6     | 36.6    | 36.6    | 36.6    | 36.6    | 36.6 | 36.6 | 36.6 |
| GE 12000              | 25.2 | 33.1                             | 35.1     | 36.3     | 37.3     | 37.9     | 38.6     | 38.9     | 38.9     | 38.9     | 38.9     | 38.9     | 38.9    | 38.9    | 38.9    | 38.9    | 38.9 | 38.9 | 38.9 |
| GE 10000              | 26.1 | 36.8                             | 39.1     | 40.9     | 42.2     | 43.0     | 43.6     | 44.1     | 44.1     | 44.1     | 44.1     | 44.1     | 44.1    | 44.1    | 44.1    | 44.1    | 44.1 | 44.1 | 44.1 |
| GE 9000               | 26.9 | 38.2                             | 40.7     | 42.5     | 44.0     | 44.8     | 45.5     | 45.9     | 45.9     | 45.9     | 45.9     | 45.9     | 45.9    | 45.9    | 45.9    | 45.9    | 45.9 | 45.9 | 45.9 |
| GE 8000               | 29.1 | 38.5                             | 40.9     | 42.7     | 44.2     | 45.1     | 45.7     | 46.4     | 46.4     | 46.4     | 46.4     | 46.4     | 46.4    | 46.4    | 46.4    | 46.4    | 46.4 | 46.4 | 46.4 |
| GE 7000               | 29.5 | 38.9                             | 41.3     | 43.2     | 44.6     | 45.5     | 46.2     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8    | 46.8    | 46.8    | 46.8    | 46.8 | 46.8 | 46.8 |
| GE 6000               | 30.4 | 40.1                             | 42.5     | 44.5     | 46.0     | 47.0     | 47.7     | 48.4     | 48.4     | 48.4     | 48.4     | 48.4     | 48.4    | 48.4    | 48.4    | 48.4    | 48.4 | 48.4 | 48.4 |
| GE 5000               | 34.4 | 44.6                             | 47.0     | 49.1     | 50.7     | 51.6     | 52.3     | 53.0     | 53.0     | 53.0     | 53.0     | 53.0     | 53.0    | 53.0    | 53.0    | 53.0    | 53.0 | 53.0 | 53.0 |
| GE 4500               | 37.3 | 48.2                             | 50.7     | 52.7     | 54.3     | 54.3     | 55.9     | 56.6     | 56.6     | 56.6     | 56.6     | 56.6     | 56.6    | 56.6    | 56.6    | 56.6    | 56.6 | 56.6 | 56.6 |
| GE 4000               | 39.0 | 50.3                             | 52.7     | 54.9     | 56.5     | 57.5     | 58.1     | 58.8     | 58.8     | 58.8     | 58.8     | 58.8     | 58.8    | 58.8    | 58.8    | 58.8    | 58.8 | 58.8 | 58.8 |
| GE 3500               | 40.1 | 51.5                             | 54.0     | 56.2     | 57.7     | 58.7     | 59.3     | 60.0     | 60.0     | 60.0     | 60.0     | 60.0     | 60.0    | 60.0    | 60.0    | 60.0    | 60.0 | 60.0 | 60.0 |
| GE 3000               | 44.0 | 55.6                             | 58.0     | 60.2     | 61.8     | 62.7     | 63.4     | 64.1     | 64.1     | 64.2     | 64.2     | 64.2     | 64.2    | 64.2    | 64.2    | 64.2    | 64.2 | 64.2 | 64.2 |
| GE 2500               | 47.5 | 59.5                             | 61.9     | 64.1     | 65.6     | 66.6     | 67.3     | 67.9     | 67.9     | 68.0     | 68.0     | 68.0     | 68.0    | 68.0    | 68.0    | 68.0    | 68.0 | 68.0 | 68.0 |
| GE 2000               | 53.6 | 66.6                             | 68.5     | 70.8     | 72.7     | 73.3     | 74.0     | 74.6     | 74.6     | 74.7     | 74.7     | 74.7     | 74.7    | 74.7    | 74.7    | 74.7    | 74.7 | 74.7 | 74.7 |
| GE 1800               | 56.3 | 68.8                             | 71.2     | 73.5     | 75.1     | 76.0     | 76.7     | 77.4     | 77.4     | 77.5     | 77.5     | 77.5     | 77.5    | 77.5    | 77.5    | 77.5    | 77.5 | 77.5 | 77.5 |
| GE 1500               | 59.1 | 72.7                             | 75.3     | 77.7     | 79.3     | 80.4     | 81.1     | 81.9     | 81.9     | 82.0     | 82.0     | 82.0     | 82.0    | 82.0    | 82.0    | 82.0    | 82.0 | 82.0 | 82.0 |
| GE 1200               | 61.6 | 76.4                             | 79.1     | 81.8     | 83.7     | 84.6     | 85.3     | 86.0     | 86.0     | 86.2     | 86.2     | 86.2     | 86.2    | 86.2    | 86.2    | 86.2    | 86.2 | 86.2 | 86.2 |
| GE 1100               | 63.3 | 78.4                             | 81.1     | 84.0     | 85.7     | 86.9     | 87.6     | 88.5     | 88.5     | 88.6     | 88.6     | 88.6     | 88.6    | 88.6    | 88.6    | 88.6    | 88.6 | 88.6 | 88.6 |
| GE 500                | 63.8 | 79.3                             | 82.1     | 85.4     | 87.1     | 88.4     | 89.0     | 89.9     | 90.1     | 90.2     | 90.2     | 90.2     | 90.2    | 90.2    | 90.2    | 90.2    | 90.2 | 90.2 | 90.2 |
| GE 400                | 64.7 | 80.4                             | 83.3     | 86.7     | 88.6     | 89.9     | 90.7     | 91.5     | 91.5     | 91.8     | 91.9     | 91.9     | 91.9    | 91.9    | 91.9    | 91.9    | 91.9 | 91.9 | 91.9 |
| GE 700                | 65.5 | 81.9                             | 84.7     | 88.4     | 90.4     | 91.8     | 92.5     | 93.4     | 93.4     | 93.7     | 93.7     | 93.7     | 93.7    | 93.7    | 93.7    | 93.7    | 93.7 | 93.7 | 93.7 |
| GE 600                | 66.2 | 83.0                             | 85.9     | 89.9     | 92.4     | 94.1     | 94.8     | 95.7     | 95.9     | 96.0     | 96.0     | 96.0     | 96.0    | 96.0    | 96.0    | 96.0    | 96.0 | 96.0 | 96.0 |
| GE 500                | 66.3 | 83.3                             | 86.3     | 90.3     | 93.1     | 94.8     | 95.7     | 96.6     | 96.8     | 96.9     | 96.9     | 96.9     | 96.9    | 96.9    | 96.9    | 96.9    | 96.9 | 96.9 | 96.9 |
| GE 400                | 66.4 | 83.6                             | 86.9     | 91.5     | 94.7     | 96.5     | 97.5     | 98.4     | 98.6     | 98.7     | 98.7     | 98.7     | 98.7    | 98.7    | 98.7    | 98.7    | 98.7 | 98.7 | 98.7 |
| GE 300                | 66.4 | 83.6                             | 86.9     | 91.6     | 95.2     | 96.9     | 97.9     | 99.3     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7    | 99.7    | 99.7    | 99.7    | 99.7 | 99.7 | 99.7 |
| GE 200                | 66.4 | 83.6                             | 86.9     | 91.6     | 95.2     | 96.9     | 97.9     | 99.3     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7    | 99.7    | 99.7    | 99.7    | 99.7 | 99.7 | 99.7 |
| GE 100                | 66.4 | 83.6                             | 86.9     | 91.6     | 95.2     | 96.9     | 98.0     | 99.5     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    | 99.8 | 99.8 | 99.8 |
| GE 0                  | 66.4 | 83.6                             | 86.9     | 91.6     | 95.2     | 96.9     | 98.0     | 99.5     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    | 99.8 | 99.8 | 99.8 |

TOTAL NUMBER OF OBSERVATIONS: 910

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOUCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 1200-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |      |      |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|------|------|
|                       | GT<br>90                         | GF<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GF<br>5 | GE<br>4 | GE<br>0 |      |      |      |
| NC LETL   16.2        | 21.9                             | 22.6     | 23.3     | 24.2     | 24.3     | 24.3     | 24.3     | 24.3     | 24.3     | 24.3     | 24.3     | 24.3    | 24.3    | 24.3    | 24.3    | 24.3 | 24.3 | 24.3 |
| GE 20000   25.2       | 33.0                             | 33.8     | 34.8     | 35.7     | 35.8     | 35.8     | 35.8     | 35.8     | 35.8     | 35.8     | 35.8     | 35.8    | 35.8    | 35.8    | 35.8    | 35.8 | 35.8 | 35.8 |
| GE 18000   25.2       | 33.0                             | 37.8     | 34.8     | 35.7     | 35.8     | 35.8     | 35.8     | 35.8     | 35.8     | 35.8     | 35.8     | 35.8    | 35.8    | 35.8    | 35.8    | 35.8 | 35.8 | 35.8 |
| GE 16000   25.3       | 33.1                             | 33.9     | 34.9     | 35.9     | 35.9     | 35.9     | 35.9     | 35.9     | 35.9     | 35.9     | 35.9     | 35.9    | 35.9    | 35.9    | 35.9    | 35.9 | 35.9 | 35.9 |
| GE 14000   26.3       | 34.1                             | 35.0     | 36.0     | 36.9     | 37.1     | 37.1     | 37.1     | 37.1     | 37.1     | 37.1     | 37.1     | 37.1    | 37.1    | 37.1    | 37.1    | 37.1 | 37.1 | 37.1 |
| GE 12000   27.7       | 35.8                             | 36.7     | 37.8     | 38.7     | 38.9     | 38.9     | 38.9     | 38.9     | 38.9     | 38.9     | 38.9     | 38.9    | 38.9    | 38.9    | 38.9    | 38.9 | 38.9 | 38.9 |
| GT 10000   29.9       | 38.8                             | 39.7     | 41.0     | 42.1     | 42.3     | 42.3     | 42.3     | 42.3     | 42.3     | 42.3     | 42.3     | 42.3    | 42.3    | 42.3    | 42.3    | 42.3 | 42.3 | 42.3 |
| GE 9000   31.1        | 40.8                             | 41.7     | 43.3     | 44.7     | 45.1     | 45.2     | 45.3     | 45.3     | 45.3     | 45.3     | 45.3     | 45.3    | 45.3    | 45.3    | 45.3    | 45.3 | 45.3 | 45.3 |
| GE 8000   31.4        | 41.1                             | 42.0     | 43.7     | 45.0     | 45.4     | 45.6     | 45.7     | 45.7     | 45.7     | 45.7     | 45.7     | 45.7    | 45.7    | 45.7    | 45.7    | 45.7 | 45.7 | 45.7 |
| GE 7000   31.7        | 41.4                             | 42.3     | 44.0     | 45.3     | 45.8     | 45.9     | 46.0     | 46.0     | 46.0     | 46.0     | 46.0     | 46.0    | 46.0    | 46.0    | 46.0    | 46.0 | 46.0 | 46.0 |
| GE 6000   33.2        | 43.1                             | 44.3     | 46.1     | 47.4     | 47.9     | 48.0     | 48.1     | 48.1     | 48.1     | 48.1     | 48.1     | 48.1    | 48.1    | 48.1    | 48.1    | 48.1 | 48.1 | 48.1 |
| GE 5000   41.9        | 52.9                             | 54.2     | 56.2     | 57.6     | 58.0     | 59.1     | 58.2     | 58.2     | 58.2     | 58.2     | 58.2     | 58.2    | 58.2    | 58.2    | 58.2    | 58.2 | 58.2 | 58.2 |
| GE 4500   47.6        | 58.8                             | 60.1     | 62.1     | 63.4     | 64.0     | 64.1     | 64.2     | 64.2     | 64.2     | 64.2     | 64.2     | 64.2    | 64.2    | 64.2    | 64.2    | 64.2 | 64.2 | 64.2 |
| GE 4000   51.7        | 63.4                             | 64.9     | 66.8     | 68.2     | 68.8     | 68.9     | 69.0     | 69.0     | 69.0     | 69.0     | 69.0     | 69.0    | 69.0    | 69.0    | 69.0    | 69.0 | 69.0 | 69.0 |
| GE 3500   55.0        | 67.6                             | 68.3     | 70.3     | 71.0     | 72.3     | 72.4     | 72.6     | 72.6     | 72.6     | 72.6     | 72.6     | 72.6    | 72.6    | 72.6    | 72.6    | 72.6 | 72.6 | 72.6 |
| GE 3000   59.7        | 72.0                             | 73.3     | 75.4     | 76.9     | 77.4     | 77.6     | 77.7     | 77.7     | 77.7     | 77.7     | 77.7     | 77.7    | 77.7    | 77.7    | 77.7    | 77.7 | 77.7 | 77.7 |
| GE 2500   63.3        | 75.9                             | 77.2     | 79.4     | 80.9     | 81.4     | 81.6     | 81.7     | 81.7     | 81.7     | 81.7     | 81.7     | 81.7    | 81.7    | 81.7    | 81.7    | 81.7 | 81.7 | 81.7 |
| GE 2000   68.2        | 81.8                             | 83.3     | 85.6     | 87.0     | 87.6     | 87.7     | 87.8     | 87.8     | 87.8     | 87.8     | 87.8     | 87.8    | 87.8    | 87.8    | 87.8    | 87.8 | 87.8 | 87.8 |
| GE 1800   69.6        | 83.6                             | 85.1     | 87.3     | 88.6     | 89.3     | 89.6     | 89.7     | 89.7     | 89.7     | 89.7     | 89.7     | 89.7    | 89.7    | 89.7    | 89.7    | 89.7 | 89.7 | 89.7 |
| GE 1500   71.4        | 86.0                             | 87.6     | 89.8     | 91.3     | 91.9     | 92.1     | 92.2     | 92.2     | 92.2     | 92.2     | 92.2     | 92.2    | 92.2    | 92.2    | 92.2    | 92.2 | 92.2 | 92.2 |
| GE 1200   73.9        | 89.0                             | 91.0     | 93.4     | 95.0     | 95.6     | 95.8     | 95.9     | 95.9     | 95.9     | 95.9     | 95.9     | 95.9    | 95.9    | 95.9    | 95.9    | 95.9 | 95.9 | 95.9 |
| GE 1000   74.3        | 89.7                             | 91.7     | 94.1     | 95.7     | 96.2     | 96.4     | 96.6     | 96.6     | 96.6     | 96.6     | 96.6     | 96.6    | 96.6    | 96.6    | 96.6    | 96.6 | 96.6 | 96.6 |
| GE 900   74.3         | 89.9                             | 91.9     | 94.3     | 96.7     | 96.6     | 96.8     | 96.9     | 96.9     | 96.9     | 96.9     | 96.9     | 96.9    | 96.9    | 96.9    | 96.9    | 96.9 | 96.9 | 96.9 |
| GE 800   74.6         | 90.1                             | 92.2     | 94.7     | 96.4     | 97.0     | 97.2     | 97.3     | 97.3     | 97.3     | 97.3     | 97.3     | 97.3    | 97.3    | 97.3    | 97.3    | 97.3 | 97.3 | 97.3 |
| GE 700   74.9         | 90.9                             | 93.1     | 95.7     | 97.7     | 98.3     | 98.6     | 98.7     | 98.7     | 98.7     | 98.7     | 98.7     | 98.7    | 98.7    | 98.7    | 98.7    | 98.7 | 98.7 | 98.7 |
| GE 600   74.9         | 90.9                             | 93.1     | 95.9     | 97.9     | 96.6     | 98.9     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0     | 99.0    | 99.0    | 99.0    | 99.0    | 99.0 | 99.0 | 99.0 |
| GE 500   75.0         | 91.1                             | 93.4     | 96.2     | 98.4     | 99.2     | 99.6     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7     | 99.7    | 99.7    | 99.7    | 99.7    | 99.7 | 99.7 | 99.7 |
| GE 400   75.0         | 91.2                             | 93.6     | 96.3     | 98.6     | 99.3     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    | 99.9 | 99.9 | 99.9 |
| GE 300   75.0         | 91.2                             | 93.6     | 96.3     | 98.6     | 99.3     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    | 99.9 | 99.9 | 99.9 |
| GE 200   75.0         | 91.2                             | 93.6     | 96.3     | 98.6     | 99.3     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    | 99.9 | 99.9 | 99.9 |
| GE 100   75.0         | 91.2                             | 93.6     | 96.3     | 98.6     | 99.3     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    | 99.9 | 99.9 | 99.9 |
| GE 0   75.0           | 91.2                             | 93.6     | 96.3     | 98.6     | 99.3     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9     | 99.9     | 99.9    | 99.9    | 99.9    | 99.9    | 99.9 | 99.9 | 99.9 |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 1500-1700

| CEILING  | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |
|----------|----------------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|          | IN                               | 1    | GT   | GE   | GE   | GE   | GE    | GE    | GE    | GE    | GE    | GE    | GE    | GE    | GE    | GE    |
| FEET     | 1                                | 160  | 90   | 60   | 40   | 40   | 32    | 24    | 20    | 16    | 12    | 10    | 8     | 5     | 4     | 0     |
| NO CEIL  | 26.2                             | 25.5 | 26.2 | 26.6 | 27.6 | 27.6 | 27.7  | 27.7  | 27.7  | 27.7  | 27.7  | 27.7  | 27.7  | 27.7  | 27.7  | 27.7  |
| GE 20000 | 33.7                             | 41.6 | 42.5 | 43.0 | 44.0 | 44.0 | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  | 44.1  |
| GE 18000 | 33.7                             | 41.8 | 42.6 | 43.1 | 44.1 | 44.1 | 44.2  | 44.2  | 44.2  | 44.2  | 44.2  | 44.2  | 44.2  | 44.2  | 44.2  | 44.2  |
| GE 16000 | 33.8                             | 42.0 | 42.9 | 43.3 | 44.3 | 44.3 | 44.4  | 44.4  | 44.4  | 44.4  | 44.4  | 44.4  | 44.4  | 44.4  | 44.4  | 44.4  |
| GE 14000 | 34.4                             | 42.7 | 43.6 | 44.1 | 45.1 | 45.1 | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  | 45.2  |
| GE 12000 | 36.6                             | 45.3 | 46.4 | 46.9 | 48.0 | 48.1 | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  |
| GE 10000 | 38.8                             | 48.2 | 49.3 | 50.1 | 51.2 | 51.3 | 51.4  | 51.4  | 51.4  | 51.4  | 51.4  | 51.4  | 51.4  | 51.4  | 51.4  | 51.4  |
| GE 9000  | 40.7                             | 50.4 | 51.6 | 52.7 | 54.2 | 54.3 | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  | 54.4  |
| GE 8000  | 41.1                             | 51.0 | 52.2 | 53.3 | 54.7 | 54.8 | 55.1  | 55.1  | 55.1  | 55.1  | 55.1  | 55.1  | 55.1  | 55.1  | 55.1  | 55.1  |
| GE 7000  | 41.5                             | 51.6 | 52.9 | 54.1 | 55.5 | 55.6 | 55.8  | 55.8  | 55.8  | 55.8  | 55.8  | 55.8  | 55.8  | 55.8  | 55.8  | 55.8  |
| GE 6000  | 43.7                             | 54.7 | 55.9 | 57.1 | 58.6 | 58.7 | 58.9  | 58.9  | 58.9  | 58.9  | 58.9  | 58.9  | 58.9  | 58.9  | 58.9  | 58.9  |
| GE 5000  | 51.7                             | 63.6 | 65.2 | 66.6 | 68.0 | 68.2 | 68.5  | 68.5  | 68.5  | 68.5  | 68.5  | 68.5  | 68.5  | 68.5  | 68.5  | 68.5  |
| GE 4000  | 55.7                             | 68.5 | 70.0 | 71.5 | 72.0 | 73.2 | 73.4  | 73.4  | 73.4  | 73.4  | 73.4  | 73.4  | 73.4  | 73.4  | 73.4  | 73.4  |
| GE 3000  | 60.1                             | 73.5 | 75.1 | 76.6 | 78.0 | 78.2 | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  |
| GE 2000  | 62.1                             | 75.5 | 77.0 | 78.6 | 80.0 | 80.2 | 80.4  | 80.4  | 80.4  | 80.4  | 80.4  | 80.4  | 80.4  | 80.4  | 80.4  | 80.4  |
| GE 1000  | 64.6                             | 78.8 | 80.5 | 82.0 | 83.4 | 83.6 | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  | 83.8  |
| GE 2500  | 67.6                             | 82.3 | 83.8 | 85.5 | 86.9 | 87.1 | 87.4  | 87.4  | 87.4  | 87.4  | 87.4  | 87.4  | 87.4  | 87.4  | 87.4  | 87.4  |
| GE 2000  | 71.2                             | 86.8 | 88.4 | 90.2 | 91.6 | 91.9 | 92.1  | 92.1  | 92.1  | 92.1  | 92.1  | 92.1  | 92.1  | 92.1  | 92.1  | 92.1  |
| GE 1600  | 72.1                             | 87.7 | 89.2 | 91.1 | 92.5 | 92.7 | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  | 93.0  |
| GE 1500  | 73.6                             | 89.6 | 91.5 | 93.4 | 94.8 | 95.1 | 95.3  | 95.3  | 95.3  | 95.3  | 95.3  | 95.3  | 95.3  | 95.3  | 95.3  | 95.3  |
| GE 1200  | 74.8                             | 91.1 | 92.9 | 94.9 | 96.4 | 96.6 | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  | 96.8  |
| GE 1000  | 75.3                             | 91.5 | 93.3 | 95.6 | 97.0 | 97.3 | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  | 97.5  |
| GE 900   | 75.4                             | 91.9 | 93.6 | 95.9 | 97.4 | 97.6 | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  |
| GE 800   | 75.4                             | 92.2 | 94.0 | 96.3 | 97.7 | 97.9 | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  |
| GE 700   | 75.4                             | 92.5 | 94.3 | 96.8 | 98.4 | 98.6 | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  |
| GE 600   | 75.4                             | 92.7 | 94.5 | 97.1 | 98.7 | 99.0 | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  | 99.3  |
| GE 500   | 75.4                             | 92.7 | 94.5 | 97.3 | 98.9 | 99.2 | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  |
| GE 400   | 75.4                             | 92.7 | 94.5 | 97.4 | 99.0 | 99.3 | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 300   | 75.4                             | 92.7 | 94.5 | 97.5 | 99.2 | 99.6 | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  |
| GE 200   | 75.4                             | 92.7 | 94.5 | 97.5 | 99.2 | 99.6 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100   | 75.4                             | 92.7 | 94.5 | 97.5 | 99.2 | 99.6 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 0     | 75.4                             | 92.7 | 94.5 | 97.5 | 99.2 | 99.6 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 910

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 027460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 1800-2000

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |       |       |       |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|-------|-------|-------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GT<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |       |       |       |       |
| NO CEIL               | 24.7                             | 29.6     | 30.3     | 31.4     | 32.5     | 32.5     | 32.6     | 32.7     | 32.7     | 32.7     | 32.7     | 32.7    | 32.7    | 32.7    | 32.7    | 32.7  | 32.7  | 32.7  | 32.7  | 32.7  |
| GE 20000              | 38.1                             | 46.7     | 47.4     | 46.6     | 49.8     | 49.8     | 49.9     | 50.1     | 50.1     | 50.1     | 50.1     | 50.1    | 50.1    | 50.1    | 50.1    | 50.1  | 50.1  | 50.1  | 50.1  | 50.1  |
| GE 18000              | 38.1                             | 46.7     | 47.4     | 48.6     | 49.9     | 49.9     | 49.9     | 50.1     | 50.1     | 50.1     | 50.1     | 50.1    | 50.1    | 50.1    | 50.1    | 50.1  | 50.1  | 50.1  | 50.1  | 50.1  |
| GE 16000              | 38.7                             | 46.9     | 47.5     | 48.7     | 49.9     | 49.9     | 50.1     | 50.2     | 50.2     | 50.2     | 50.2     | 50.2    | 50.2    | 50.2    | 50.2    | 50.2  | 50.2  | 50.2  | 50.2  | 50.2  |
| GE 14000              | 39.1                             | 48.0     | 48.6     | 49.9     | 51.2     | 51.2     | 51.3     | 51.4     | 51.4     | 51.4     | 51.4     | 51.4    | 51.4    | 51.4    | 51.4    | 51.4  | 51.4  | 51.4  | 51.4  | 51.4  |
| GE 12000              | 41.5                             | 51.7     | 52.6     | 54.1     | 55.4     | 55.4     | 55.5     | 55.6     | 55.6     | 55.6     | 55.6     | 55.6    | 55.6    | 55.6    | 55.6    | 55.6  | 55.6  | 55.6  | 55.6  | 55.6  |
| GE 10000              | 45.2                             | 56.1     | 57.0     | 58.7     | 60.0     | 60.0     | 60.1     | 60.2     | 60.2     | 60.2     | 60.2     | 60.2    | 60.2    | 60.2    | 60.2    | 60.2  | 60.2  | 60.2  | 60.2  | 60.2  |
| GE 9000               | 46.5                             | 58.1     | 59.0     | 61.0     | 62.4     | 62.5     | 62.7     | 62.8     | 62.8     | 62.8     | 62.8     | 62.8    | 62.8    | 62.8    | 62.8    | 62.8  | 62.8  | 62.8  | 62.8  | 62.8  |
| GE 8000               | 47.2                             | 58.9     | 59.8     | 61.8     | 63.2     | 63.3     | 63.4     | 63.5     | 63.5     | 63.5     | 63.5     | 63.5    | 63.5    | 63.5    | 63.5    | 63.5  | 63.5  | 63.5  | 63.5  | 63.5  |
| GE 7000               | 47.8                             | 59.6     | 60.6     | 62.5     | 64.0     | 64.2     | 64.3     | 64.4     | 64.4     | 64.4     | 64.4     | 64.4    | 64.4    | 64.4    | 64.4    | 64.4  | 64.4  | 64.4  | 64.4  | 64.4  |
| GE 6000               | 49.6                             | 62.0     | 67.1     | 65.1     | 66.5     | 66.7     | 66.9     | 67.0     | 67.0     | 67.0     | 67.0     | 67.0    | 67.0    | 67.0    | 67.0    | 67.0  | 67.0  | 67.0  | 67.0  | 67.0  |
| GE 5000               | 53.9                             | 66.7     | 67.8     | 69.8     | 71.2     | 71.5     | 71.6     | 71.7     | 71.8     | 71.8     | 71.8     | 71.8    | 71.8    | 71.8    | 71.8    | 71.8  | 71.8  | 71.8  | 71.8  | 71.8  |
| GE 4500               | 56.9                             | 70.3     | 71.4     | 73.5     | 74.9     | 75.1     | 75.2     | 75.4     | 75.5     | 75.5     | 75.5     | 75.5    | 75.5    | 75.5    | 75.5    | 75.5  | 75.5  | 75.5  | 75.5  | 75.5  |
| GE 4000               | 58.9                             | 72.7     | 73.8     | 75.9     | 77.1     | 77.6     | 77.7     | 77.8     | 77.9     | 77.9     | 77.9     | 77.9    | 77.9    | 77.9    | 77.9    | 77.9  | 77.9  | 77.9  | 77.9  | 77.9  |
| GE 3500               | 60.9                             | 74.8     | 75.9     | 78.0     | 79.4     | 79.7     | 79.8     | 79.9     | 80.0     | 80.0     | 80.0     | 80.0    | 80.0    | 80.0    | 80.0    | 80.0  | 80.0  | 80.0  | 80.0  | 80.0  |
| GE 3000               | 64.0                             | 78.7     | 79.9     | 82.0     | 83.0     | 83.6     | 83.8     | 83.9     | 84.0     | 84.0     | 84.0     | 84.0    | 84.0    | 84.0    | 84.0    | 84.0  | 84.0  | 84.0  | 84.0  | 84.0  |
| GE 2500               | 66.3                             | 82.1     | 93.3     | 85.4     | 86.9     | 87.1     | 87.2     | 87.3     | 87.4     | 87.4     | 87.5     | 87.5    | 87.5    | 87.5    | 87.5    | 87.5  | 87.5  | 87.5  | 87.5  | 87.5  |
| GE 2000               | 69.0                             | 85.6     | 85.9     | 89.1     | 90.5     | 90.8     | 90.9     | 91.0     | 91.2     | 91.2     | 91.3     | 91.3    | 91.3    | 91.3    | 91.3    | 91.3  | 91.3  | 91.3  | 91.3  | 91.3  |
| GE 1800               | 69.7                             | 86.6     | 87.8     | 90.1     | 91.5     | 91.8     | 91.9     | 92.0     | 92.2     | 92.2     | 92.3     | 92.3    | 92.3    | 92.3    | 92.3    | 92.3  | 92.3  | 92.3  | 92.3  | 92.3  |
| GE 1500               | 70.6                             | 87.7     | 89.0     | 91.2     | 92.6     | 92.9     | 93.0     | 93.1     | 93.3     | 93.3     | 93.4     | 93.4    | 93.4    | 93.4    | 93.4    | 93.4  | 93.4  | 93.4  | 93.4  | 93.4  |
| GE 1200               | 71.6                             | 89.2     | 90.5     | 92.7     | 94.3     | 94.6     | 94.7     | 94.8     | 94.9     | 95.0     | 95.1     | 95.1    | 95.1    | 95.1    | 95.1    | 95.1  | 95.1  | 95.1  | 95.1  | 95.1  |
| GE 1000               | 71.7                             | 89.5     | 90.8     | 93.3     | 94.9     | 95.1     | 95.2     | 95.4     | 95.5     | 95.6     | 95.7     | 95.7    | 95.7    | 95.7    | 95.7    | 95.7  | 95.7  | 95.7  | 95.7  | 95.7  |
| GE 900                | 72.0                             | 89.9     | 91.3     | 93.9     | 95.5     | 95.8     | 95.9     | 96.0     | 96.1     | 96.2     | 96.4     | 96.4    | 96.4    | 96.4    | 96.4    | 96.4  | 96.4  | 96.4  | 96.4  | 96.4  |
| GE 800                | 72.4                             | 90.6     | 92.2     | 94.8     | 96.5     | 96.8     | 96.9     | 97.0     | 97.1     | 97.2     | 97.3     | 97.3    | 97.3    | 97.3    | 97.3    | 97.3  | 97.3  | 97.3  | 97.3  | 97.3  |
| GE 700                | 72.5                             | 90.8     | 92.4     | 95.1     | 96.3     | 97.1     | 97.2     | 97.3     | 97.5     | 97.6     | 97.7     | 97.7    | 97.7    | 97.7    | 97.7    | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  |
| GE 600                | 72.7                             | 91.0     | 92.6     | 95.4     | 97.1     | 97.5     | 97.6     | 97.7     | 97.9     | 98.0     | 98.1     | 98.1    | 98.1    | 98.1    | 98.1    | 98.1  | 98.1  | 98.1  | 98.1  | 98.1  |
| GE 500                | 72.8                             | 91.3     | 92.9     | 95.8     | 97.4     | 97.9     | 98.1     | 98.2     | 98.6     | 98.7     | 98.8     | 98.8    | 98.8    | 98.8    | 98.8    | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  |
| GE 400                | 72.8                             | 91.5     | 93.3     | 96.5     | 98.2     | 98.7     | 98.9     | 99.0     | 99.3     | 99.4     | 99.6     | 99.6    | 99.6    | 99.6    | 99.6    | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  |
| GE 300                | 72.9                             | 91.6     | 93.4     | 96.6     | 98.3     | 98.9     | 99.1     | 99.2     | 99.6     | 99.7     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    | 99.8  | 99.8  | 99.8  | 99.8  | 99.8  |
| GE 200                | 72.9                             | 91.7     | 93.5     | 96.7     | 98.5     | 99.0     | 99.2     | 99.4     | 99.8     | 99.9     | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100                | 72.8                             | 91.7     | 93.5     | 96.7     | 98.5     | 99.0     | 99.2     | 99.4     | 99.8     | 99.9     | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 905

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOOMEREE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): 2100-2300

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|
|                       | GT<br>160                        | GT<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GT<br>5 | GE<br>4 | GT<br>0 |  |
| NO CEIL               | 24.9                             | 33.4     | 35.5     | 37.1     | 38.7     | 39.6     | 40.1     | 40.6     | 40.7     | 40.7     | 40.7     | 40.7    | 40.7    | 40.7    | 40.7    |  |
| GE 20000              | 33.6                             | 46.2     | 48.6     | 51.4     | 53.1     | 54.3     | 54.8     | 55.2     | 55.4     | 55.4     | 55.4     | 55.4    | 55.4    | 55.4    | 55.4    |  |
| GE 18000              | 33.6                             | 46.2     | 48.5     | 51.4     | 53.1     | 54.3     | 54.8     | 55.2     | 55.4     | 55.4     | 55.4     | 55.4    | 55.4    | 55.4    | 55.4    |  |
| GE 16000              | 33.7                             | 46.3     | 49.0     | 51.5     | 53.3     | 54.4     | 54.9     | 55.4     | 55.5     | 55.5     | 55.5     | 55.5    | 55.5    | 55.5    | 55.5    |  |
| GE 14000              | 34.4                             | 47.2     | 49.0     | 52.4     | 54.1     | 55.2     | 55.8     | 56.2     | 56.4     | 56.4     | 56.4     | 56.4    | 56.4    | 56.4    | 56.4    |  |
| GE 12000              | 35.9                             | 49.3     | 52.2     | 55.0     | 57.1     | 58.2     | 58.8     | 59.3     | 59.4     | 59.4     | 59.4     | 59.4    | 59.4    | 59.4    | 59.4    |  |
| GE 10000              | 38.9                             | 53.5     | 56.4     | 59.6     | 62.1     | 63.2     | 63.8     | 64.3     | 64.8     | 64.8     | 64.8     | 64.8    | 64.8    | 64.8    | 64.8    |  |
| GE 9000               | 40.2                             | 54.9     | 58.1     | 61.5     | 64.1     | 65.4     | 66.1     | 66.6     | 66.7     | 66.7     | 66.7     | 66.7    | 66.7    | 66.7    | 66.7    |  |
| GE 8000               | 40.4                             | 55.1     | 58.3     | 62.0     | 64.4     | 65.9     | 66.5     | 67.1     | 67.2     | 67.2     | 67.2     | 67.2    | 67.2    | 67.2    | 67.2    |  |
| GE 7000               | 40.8                             | 55.5     | 58.7     | 62.3     | 65.1     | 66.2     | 66.9     | 67.4     | 67.5     | 67.5     | 67.5     | 67.5    | 67.5    | 67.5    | 67.5    |  |
| GE 6000               | 41.3                             | 56.0     | 59.3     | 63.1     | 65.9     | 67.0     | 67.6     | 68.2     | 68.3     | 68.3     | 68.3     | 68.3    | 68.3    | 68.3    | 68.3    |  |
| GE 5000               | 43.6                             | 59.2     | 62.8     | 66.6     | 69.4     | 70.6     | 71.3     | 71.8     | 71.9     | 71.9     | 71.9     | 71.9    | 71.9    | 71.9    | 71.9    |  |
| GE 4500               | 44.8                             | 61.0     | 64.5     | 68.4     | 71.7     | 72.4     | 73.0     | 73.6     | 73.8     | 73.8     | 73.8     | 73.8    | 73.8    | 73.8    | 73.8    |  |
| GE 4000               | 45.5                             | 62.2     | 65.7     | 69.6     | 72.4     | 73.6     | 74.3     | 74.8     | 75.0     | 75.0     | 75.0     | 75.0    | 75.0    | 75.0    | 75.0    |  |
| GE 3500               | 46.9                             | 64.0     | 67.6     | 71.5     | 74.5     | 75.7     | 76.4     | 76.9     | 77.1     | 77.1     | 77.1     | 77.1    | 77.1    | 77.1    | 77.1    |  |
| GE 3000               | 47.3                             | 67.8     | 71.8     | 75.9     | 79.0     | 80.2     | 80.9     | 81.4     | 81.7     | 81.7     | 81.7     | 81.7    | 81.7    | 81.7    | 81.7    |  |
| GE 2500               | 51.0                             | 70.4     | 74.5     | 78.9     | 82.0     | 83.2     | 83.9     | 84.4     | 84.6     | 84.6     | 84.6     | 84.6    | 84.6    | 84.6    | 84.6    |  |
| GE 2000               | 52.7                             | 73.0     | 77.7     | 82.2     | 85.1     | 86.5     | 87.2     | 87.7     | 88.0     | 88.0     | 88.0     | 88.0    | 88.0    | 88.0    | 88.0    |  |
| GE 1800               | 53.0                             | 73.4     | 78.1     | 82.8     | 85.9     | 87.1     | 87.7     | 88.3     | 88.5     | 88.5     | 88.5     | 88.5    | 88.5    | 88.5    | 88.5    |  |
| GE 1600               | 53.5                             | 73.8     | 78.6     | 83.2     | 86.3     | 87.5     | 88.2     | 88.7     | 89.0     | 89.0     | 89.0     | 89.0    | 89.0    | 89.0    | 89.0    |  |
| GE 1200               | 54.0                             | 75.1     | 80.0     | 84.6     | 87.8     | 89.2     | 89.8     | 90.4     | 90.6     | 90.6     | 90.6     | 90.6    | 90.6    | 90.6    | 90.6    |  |
| GE 1000               | 54.7                             | 76.1     | 81.0     | 85.7     | 88.8     | 90.2     | 90.8     | 91.4     | 91.6     | 91.6     | 91.6     | 91.6    | 91.6    | 91.6    | 91.6    |  |
| GE 900                | 54.9                             | 76.5     | 81.3     | 86.1     | 89.7     | 90.6     | 91.4     | 91.9     | 92.2     | 92.2     | 92.2     | 92.2    | 92.2    | 92.2    | 92.2    |  |
| GE 800                | 55.2                             | 77.0     | 81.9     | 86.6     | 89.7     | 91.2     | 91.9     | 92.5     | 92.7     | 92.7     | 92.7     | 92.7    | 92.7    | 92.7    | 92.7    |  |
| GE 700                | 55.6                             | 77.9     | 82.8     | 87.5     | 90.7     | 92.2     | 93.0     | 93.6     | 93.9     | 93.9     | 93.9     | 93.9    | 93.9    | 93.9    | 93.9    |  |
| GE 600                | 55.9                             | 78.6     | 83.4     | 88.4     | 91.2     | 93.4     | 94.3     | 94.8     | 95.0     | 95.0     | 95.0     | 95.0    | 95.0    | 95.0    | 95.0    |  |
| GE 500                | 56.9                             | 78.8     | 84.0     | 89.0     | 92.6     | 94.3     | 95.2     | 95.8     | 96.0     | 96.0     | 96.0     | 96.0    | 96.0    | 96.0    | 96.0    |  |
| GE 400                | 55.9                             | 79.4     | 84.9     | 89.8     | 93.5     | 95.1     | 96.1     | 96.7     | 96.9     | 96.9     | 96.9     | 96.9    | 96.9    | 96.9    | 96.9    |  |
| GE 300                | 56.0                             | 79.7     | 85.3     | 91.0     | 95.2     | 96.9     | 97.9     | 98.5     | 98.8     | 98.9     | 98.9     | 98.9    | 98.9    | 98.9    | 98.9    |  |
| GE 200                | 56.1                             | 79.8     | 85.6     | 91.3     | 95.0     | 97.3     | 98.3     | 99.1     | 99.4     | 99.6     | 99.6     | 99.6    | 99.6    | 99.6    | 99.6    |  |
| GE 100                | 56.1                             | 79.8     | 85.5     | 91.3     | 95.6     | 97.3     | 98.3     | 99.6     | 99.9     | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |  |
| GE 0                  | 56.1                             | 79.8     | 85.6     | 91.3     | 95.6     | 97.3     | 98.3     | 99.6     | 99.9     | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |  |

TOTAL NUMBER OF OBSERVATIONS: 905

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
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PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
MONTH: JUL HOURS(LST): ALL

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |         |         |         |         |       |      |
|----------|------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|------|
| IN       | FEET | GE<br>90                         | GE<br>30 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GL<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |      |
| NO CEIL  | 1    | 18.9                             | 25.4     | 26.9     | 28.3     | 29.7     | 30.3     | 30.8     | 31.4     | 31.6     | 31.7     | 31.9    | 32.0    | 32.0    | 32.1    | 32.2  | 32.3 |
| GE 20000 | 1    | 26.8                             | 36.0     | 37.5     | 39.7     | 41.3     | 42.0     | 42.6     | 43.3     | 43.7     | 43.8     | 44.0    | 44.0    | 44.1    | 44.2    | 44.2  | 44.4 |
| GE 18000 | 1    | 26.8                             | 36.1     | 37.4     | 39.7     | 41.3     | 42.1     | 42.6     | 43.4     | 43.7     | 43.8     | 44.0    | 44.0    | 44.1    | 44.2    | 44.3  | 44.4 |
| GE 16000 | 1    | 26.9                             | 36.2     | 37.9     | 39.8     | 41.4     | 42.2     | 42.7     | 43.5     | 43.8     | 43.9     | 44.1    | 44.1    | 44.2    | 44.3    | 44.4  | 44.5 |
| GE 14000 | 1    | 27.5                             | 36.9     | 39.7     | 40.6     | 42.2     | 43.0     | 43.6     | 44.3     | 44.7     | 44.8     | 45.0    | 45.0    | 45.1    | 45.2    | 45.2  | 45.4 |
| GE 12000 | 1    | 29.0                             | 38.0     | 40.9     | 42.9     | 44.6     | 45.4     | 46.1     | 46.8     | 47.2     | 47.4     | 47.5    | 47.6    | 47.7    | 47.8    | 47.8  | 48.0 |
| GE 10000 | 1    | 32.4                             | 42.5     | 44.4     | 46.8     | 48.7     | 49.6     | 50.2     | 51.1     | 51.5     | 51.6     | 51.8    | 51.9    | 52.0    | 52.1    | 52.3  |      |
| GE 8000  | 1    | 32.4                             | 43.8     | 46.0     | 48.6     | 50.8     | 51.8     | 52.5     | 53.4     | 53.8     | 53.9     | 54.1    | 54.2    | 54.4    | 54.4    | 54.6  |      |
| GE 6000  | 1    | 32.7                             | 44.2     | 46.3     | 49.0     | 51.2     | 52.2     | 53.0     | 53.9     | 54.3     | 54.4     | 54.6    | 54.6    | 54.7    | 54.8    | 54.9  | 55.1 |
| GE 4000  | 1    | 33.0                             | 44.6     | 46.8     | 49.4     | 51.7     | 52.7     | 53.5     | 54.4     | 54.8     | 54.9     | 55.1    | 55.1    | 55.2    | 55.3    | 55.4  | 55.6 |
| GE 2000  | 1    | 34.2                             | 46.0     | 48.3     | 51.0     | 53.3     | 54.3     | 55.1     | 56.0     | 56.4     | 56.6     | 56.7    | 56.8    | 56.9    | 57.0    | 57.1  | 57.2 |
| GE 5000  | 1    | 38.3                             | 50.8     | 53.2     | 56.1     | 58.4     | 59.4     | 60.3     | 61.2     | 61.6     | 61.8     | 62.0    | 62.1    | 62.3    | 62.3    | 62.5  |      |
| GE 4500  | 1    | 40.9                             | 54.0     | 56.5     | 59.4     | 61.9     | 62.8     | 63.7     | 64.6     | 65.1     | 65.3     | 65.5    | 65.6    | 65.7    | 65.8    | 66.0  |      |
| GE 4000  | 1    | 42.7                             | 56.3     | 59.5     | 61.8     | 64.2     | 65.2     | 66.1     | 67.1     | 67.5     | 67.7     | 67.9    | 68.0    | 68.2    | 68.2    | 68.4  |      |
| GE 3000  | 1    | 44.4                             | 58.2     | 63.6     | 63.9     | 66.2     | 67.3     | 68.2     | 69.2     | 69.6     | 69.8     | 70.0    | 70.1    | 70.3    | 70.3    | 70.5  |      |
| GE 3000  | 1    | 47.3                             | 61.7     | 64.3     | 67.5     | 70.0     | 71.0     | 72.0     | 73.4     | 73.7     | 73.8     | 73.9    | 74.0    | 74.1    | 74.1    | 74.3  |      |
| GE 2500  | 1    | 49.9                             | 64.8     | 67.5     | 70.8     | 73.3     | 74.4     | 75.3     | 76.3     | 76.8     | 77.0     | 77.2    | 77.3    | 77.4    | 77.5    | 77.7  |      |
| GE 2000  | 1    | 52.0                             | 68.7     | 71.5     | 75.0     | 77.4     | 78.6     | 79.5     | 80.5     | 81.0     | 81.2     | 81.4    | 81.5    | 81.6    | 81.7    | 81.8  | 81.9 |
| GE 1800  | 1    | 54.0                             | 69.9     | 72.3     | 76.3     | 78.7     | 79.9     | 80.9     | 81.8     | 82.3     | 82.6     | 82.7    | 82.8    | 82.9    | 83.0    | 83.1  | 83.2 |
| GE 1500  | 1    | 55.4                             | 71.8     | 74.7     | 78.2     | 80.8     | 81.9     | 82.9     | 83.9     | 84.4     | 84.7     | 84.8    | 84.9    | 85.0    | 85.1    | 85.2  | 85.4 |
| GE 1200  | 1    | 56.9                             | 73.9     | 76.9     | 80.6     | 83.2     | 84.5     | 85.5     | 86.5     | 87.0     | 87.2     | 87.4    | 87.5    | 87.6    | 87.7    | 87.7  | 87.9 |
| GE 1000  | 1    | 57.7                             | 75.0     | 78.1     | 81.9     | 84.5     | 85.8     | 86.8     | 87.9     | 88.4     | 88.6     | 88.6    | 88.9    | 89.0    | 89.1    | 89.2  | 89.3 |
| GE 900   | 1    | 58.1                             | 75.7     | 78.8     | 82.7     | 85.4     | 86.7     | 87.7     | 88.8     | 89.3     | 89.6     | 89.7    | 89.8    | 89.9    | 90.0    | 90.1  | 90.3 |
| GE 800   | 1    | 58.5                             | 76.3     | 79.5     | 83.4     | 86.2     | 87.5     | 88.5     | 89.6     | 90.1     | 90.4     | 90.5    | 90.6    | 90.7    | 90.8    | 90.9  | 91.1 |
| GE 700   | 1    | 59.8                             | 77.3     | 80.5     | 84.6     | 87.5     | 88.8     | 89.9     | 90.9     | 91.5     | 91.8     | 92.0    | 92.0    | 92.1    | 92.2    | 92.3  | 92.5 |
| GE 600   | 1    | 59.3                             | 78.1     | 81.4     | 85.8     | 88.3     | 90.4     | 91.5     | 92.5     | 93.1     | 93.4     | 93.6    | 93.6    | 93.7    | 93.8    | 93.9  | 94.1 |
| GE 500   | 1    | 59.5                             | 78.6     | 82.2     | 86.7     | 90.0     | 91.6     | 92.8     | 93.9     | 94.5     | 94.7     | 94.9    | 95.0    | 95.0    | 95.2    | 95.2  | 95.4 |
| GE 400   | 1    | 59.5                             | 79.1     | 82.7     | 87.5     | 90.9     | 92.5     | 93.8     | 95.0     | 95.6     | 95.9     | 96.1    | 96.2    | 96.3    | 96.4    | 96.5  | 96.6 |
| GE 700   | 1    | 59.6                             | 79.4     | 83.1     | 88.3     | 91.0     | 93.6     | 94.9     | 96.3     | 96.9     | 97.2     | 97.4    | 97.5    | 97.6    | 97.7    | 97.8  | 97.9 |
| GE 200   | 1    | 59.6                             | 79.5     | 83.3     | 88.4     | 92.2     | 94.1     | 95.4     | 97.0     | 97.7     | 98.0     | 98.2    | 98.3    | 98.4    | 98.5    | 98.6  | 98.8 |
| GE 100   | 1    | 59.6                             | 79.5     | 83.3     | 88.5     | 92.7     | 94.2     | 95.6     | 97.3     | 98.0     | 98.4     | 98.7    | 98.8    | 99.1    | 99.1    | 99.4  | 99.4 |
| GE       | 0    | 59.6                             | 79.5     | 83.3     | 88.5     | 92.7     | 94.2     | 95.6     | 97.3     | 98.0     | 98.5     | 98.8    | 99.0    | 99.3    | 99.4    | 100.0 |      |

TOTAL NUMBER OF OBSERVATIONS: 7245

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AER WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-84  
MONTH: AUG HOURS(LST): 0000-0200

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |       |       |       |       |       |       |       |       |       |      |      |      |      |       |  |  |  |
|----------|------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|--|--|--|
| IN FEET  | GT   | GE 90                            | GE 80 | GE 60 | GE 40 | GE 32 | GE 24 | GE 20 | GE 16 | GE 12 | GE 10 | GE 8 | GE 5 | GE 4 | GE 3 |       |  |  |  |
| NO CEIL  | 12.0 | 29.0                             | 30.7  | 34.6  | 38.1  | 39.6  | 40.9  | 42.8  | 43.6  | 43.9  | 44.2  | 44.4 | 44.4 | 44.7 | 44.7 | 45.2  |  |  |  |
| GE 20000 | 22.9 | 33.9                             | 35.7  | 40.3  | 44.2  | 46.0  | 47.5  | 49.8  | 50.7  | 51.0  | 51.2  | 51.5 | 51.5 | 51.8 | 51.8 | 52.2  |  |  |  |
| GE 18000 | 22.9 | 33.9                             | 35.7  | 40.3  | 44.2  | 46.0  | 47.5  | 49.8  | 50.7  | 51.0  | 51.2  | 51.5 | 51.5 | 51.8 | 51.8 | 52.2  |  |  |  |
| GE 16000 | 22.9 | 33.9                             | 35.7  | 40.3  | 44.2  | 46.0  | 47.5  | 49.8  | 50.7  | 51.0  | 51.2  | 51.5 | 51.5 | 51.8 | 51.8 | 52.2  |  |  |  |
| GE 14000 | 23.0 | 34.0                             | 35.7  | 40.3  | 44.4  | 46.2  | 47.8  | 50.0  | 50.9  | 51.2  | 51.5  | 51.7 | 51.7 | 52.0 | 52.0 | 52.4  |  |  |  |
| GE 12000 | 24.4 | 36.0                             | 37.8  | 42.5  | 46.4  | 48.2  | 49.8  | 52.2  | 53.1  | 53.5  | 53.7  | 53.9 | 53.9 | 54.3 | 54.3 | 54.7  |  |  |  |
| GE 10000 | 26.5 | 38.5                             | 40.4  | 45.2  | 49.2  | 51.0  | 52.6  | 55.2  | 56.1  | 56.4  | 56.6  | 56.9 | 56.9 | 57.2 | 57.2 | 57.6  |  |  |  |
| GE 9000  | 26.7 | 39.0                             | 40.9  | 45.6  | 49.7  | 51.6  | 53.4  | 56.2  | 57.2  | 57.5  | 57.8  | 58.0 | 58.0 | 58.3 | 58.3 | 58.8  |  |  |  |
| GE 8000  | 27.0 | 39.2                             | 41.1  | 45.8  | 49.9  | 52.0  | 53.9  | 56.7  | 57.8  | 58.1  | 58.3  | 58.5 | 58.5 | 58.9 | 58.9 | 59.3  |  |  |  |
| GE 7000  | 27.1 | 39.3                             | 41.2  | 46.0  | 50.0  | 52.2  | 54.3  | 57.1  | 58.1  | 58.4  | 58.7  | 58.9 | 58.9 | 59.2 | 59.2 | 59.7  |  |  |  |
| GE 6000  | 27.6 | 40.4                             | 42.4  | 47.2  | 51.3  | 53.7  | 55.7  | 58.5  | 59.6  | 59.9  | 60.1  | 60.3 | 60.3 | 60.7 | 60.7 | 61.1  |  |  |  |
| GE 5000  | 29.0 | 43.5                             | 45.4  | 50.4  | 54.7  | 57.1  | 59.3  | 62.2  | 63.3  | 63.6  | 63.8  | 64.0 | 64.0 | 64.4 | 64.4 | 64.8  |  |  |  |
| GE 4000  | 36.7 | 45.5                             | 47.9  | 52.9  | 57.3  | 59.7  | 62.0  | 64.9  | 66.1  | 66.5  | 66.7  | 67.0 | 67.0 | 67.3 | 67.3 | 67.8  |  |  |  |
| GE 3000  | 31.8 | 47.5                             | 49.9  | 55.2  | 59.6  | 61.9  | 64.3  | 67.3  | 68.4  | 68.9  | 69.1  | 69.3 | 69.3 | 69.7 | 69.7 | 70.1  |  |  |  |
| GE 3500  | 32.4 | 48.3                             | 50.9  | 56.2  | 60.6  | 62.9  | 65.3  | 68.3  | 69.4  | 69.9  | 70.1  | 70.3 | 70.3 | 70.7 | 70.7 | 71.1  |  |  |  |
| GE 3000  | 33.9 | 50.4                             | 53.3  | 58.8  | 63.3  | 65.8  | 68.3  | 71.5  | 72.6  | 73.0  | 73.3  | 73.5 | 73.5 | 73.8 | 73.8 | 74.3  |  |  |  |
| GE 2400  | 35.8 | 53.6                             | 56.4  | 61.9  | 66.5  | 69.1  | 71.6  | 74.9  | 76.1  | 76.5  | 76.7  | 77.0 | 77.0 | 77.3 | 77.3 | 77.8  |  |  |  |
| GE 2600  | 36.7 | 55.4                             | 58.3  | 63.9  | 68.7  | 71.3  | 73.8  | 77.8  | 79.1  | 79.6  | 79.8  | 80.0 | 80.0 | 80.3 | 80.3 | 80.8  |  |  |  |
| GE 1800  | 37.0 | 56.0                             | 59.7  | 64.6  | 69.3  | 72.1  | 74.6  | 78.7  | 80.1  | 80.6  | 80.8  | 81.0 | 81.0 | 81.3 | 81.3 | 81.6  |  |  |  |
| GE 1700  | 37.9 | 57.5                             | 60.6  | 66.4  | 71.1  | 73.9  | 76.5  | 80.7  | 82.1  | 82.6  | 82.8  | 83.1 | 83.1 | 83.5 | 83.5 | 83.9  |  |  |  |
| GE 1700  | 38.8 | 59.7                             | 62.7  | 68.7  | 73.5  | 76.3  | 78.9  | 83.0  | 84.5  | 84.9  | 85.2  | 85.5 | 85.5 | 85.8 | 85.8 | 86.3  |  |  |  |
| GE 1200  | 39.0 | 60.4                             | 63.5  | 69.7  | 74.7  | 77.6  | 80.2  | 84.5  | 86.0  | 86.4  | 86.6  | 87.0 | 87.0 | 87.3 | 87.3 | 87.8  |  |  |  |
| GE 900   | 37.1 | 61.1                             | 64.3  | 70.6  | 75.7  | 78.7  | 81.2  | 85.5  | 87.0  | 87.4  | 87.6  | 88.0 | 88.0 | 88.3 | 88.3 | 88.8  |  |  |  |
| GE 800   | 39.2 | 61.5                             | 64.6  | 70.9  | 76.1  | 79.0  | 81.6  | 86.0  | 87.4  | 87.9  | 88.1  | 88.4 | 88.4 | 88.8 | 88.8 | 89.2  |  |  |  |
| GE 700   | 39.3 | 62.2                             | 65.5  | 72.1  | 77.4  | 80.3  | 83.1  | 87.6  | 89.1  | 89.6  | 89.8  | 90.1 | 90.1 | 90.4 | 90.4 | 90.9  |  |  |  |
| GE 600   | 39.4 | 62.6                             | 66.3  | 73.0  | 78.4  | 81.5  | 84.3  | 88.8  | 90.2  | 90.7  | 90.9  | 91.2 | 91.2 | 91.6 | 91.6 | 92.0  |  |  |  |
| GE 500   | 39.8 | 63.4                             | 67.2  | 74.0  | 79.4  | 82.6  | 85.4  | 90.0  | 91.6  | 92.0  | 92.2  | 92.6 | 92.6 | 92.9 | 92.9 | 93.4  |  |  |  |
| GE 400   | 39.8 | 63.7                             | 67.6  | 74.6  | 80.3  | 83.6  | 86.4  | 91.0  | 92.6  | 93.0  | 93.3  | 93.6 | 93.6 | 93.9 | 93.9 | 94.4  |  |  |  |
| GE 700   | 39.8 | 64.0                             | 68.0  | 75.4  | 81.5  | 84.8  | 87.9  | 92.7  | 94.3  | 94.7  | 94.9  | 95.3 | 95.3 | 95.6 | 95.6 | 96.1  |  |  |  |
| GE 200   | 39.8 | 64.0                             | 68.0  | 75.5  | 81.7  | 85.2  | 88.2  | 93.1  | 94.7  | 95.3  | 95.5  | 95.8 | 95.8 | 96.2 | 96.2 | 96.6  |  |  |  |
| GE 100   | 39.8 | 64.2                             | 68.1  | 75.8  | 82.4  | 86.0  | 89.1  | 94.4  | 96.1  | 96.9  | 97.2  | 97.5 | 97.5 | 98.2 | 98.2 | 98.7  |  |  |  |
| GE 0     | 39.8 | 64.2                             | 68.1  | 75.8  | 82.4  | 86.0  | 89.1  | 94.5  | 96.2  | 97.0  | 97.3  | 97.6 | 97.6 | 98.7 | 98.7 | 100.0 |  |  |  |

TOTAL NUMBER OF OBSERVATIONS: 890

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: ROSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 0300-0500

| CEILING |       | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |
|---------|-------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|
| IN      | FLEET | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |
| NO CEIL | 1     | 16.2                             | 21.3     | 22.5     | 26.0     | 28.1     | 30.4     | 31.4     | 34.0     | 35.0     | 36.1     | 36.3     | 36.7    | 37.4    | 38.5    | 38.6    | 39.9 |
| GE      | 20000 | 18.4                             | 24.4     | 25.7     | 29.8     | 32.1     | 34.8     | 36.1     | 38.8     | 39.9     | 41.2     | 41.5     | 41.8    | 42.8    | 44.0    | 44.1    | 45.5 |
| GE      | 18000 | 18.5                             | 24.5     | 25.8     | 29.9     | 32.2     | 34.9     | 36.2     | 38.9     | 40.0     | 41.4     | 41.6     | 41.9    | 42.9    | 44.1    | 44.2    | 45.6 |
| GE      | 16000 | 18.5                             | 24.5     | 25.8     | 29.9     | 32.2     | 34.9     | 36.2     | 38.9     | 40.0     | 41.4     | 41.6     | 41.9    | 42.9    | 44.1    | 44.2    | 45.6 |
| GE      | 14000 | 18.8                             | 24.9     | 26.3     | 30.3     | 32.6     | 35.3     | 36.7     | 39.4     | 40.5     | 41.8     | 42.0     | 42.3    | 43.3    | 44.5    | 44.6    | 46.1 |
| GE      | 12000 | 19.6                             | 26.7     | 28.0     | 32.1     | 34.4     | 37.2     | 38.6     | 41.4     | 42.5     | 43.8     | 44.0     | 44.3    | 45.3    | 46.5    | 46.6    | 48.0 |
| GE      | 10000 | 21.1                             | 29.2     | 30.9     | 35.3     | 37.7     | 40.6     | 42.0     | 44.9     | 46.0     | 47.4     | 47.6     | 47.9    | 48.9    | 50.1    | 50.2    | 51.6 |
| GE      | 9000  | 21.9                             | 30.2     | 31.8     | 36.3     | 38.7     | 41.7     | 43.1     | 46.1     | 47.3     | 48.8     | 49.0     | 49.3    | 50.3    | 51.5    | 51.6    | 53.1 |
| GE      | 8000  | 22.4                             | 30.7     | 32.4     | 36.9     | 39.4     | 42.5     | 44.0     | 46.9     | 48.1     | 49.7     | 49.9     | 50.2    | 51.2    | 52.4    | 52.5    | 53.7 |
| GE      | 7000  | 22.5                             | 31.0     | 32.6     | 37.1     | 39.6     | 42.7     | 44.3     | 47.4     | 48.6     | 50.1     | 50.3     | 50.7    | 51.6    | 53.0    | 53.1    | 54.1 |
| GE      | 6000  | 23.5                             | 31.9     | 33.9     | 38.4     | 40.0     | 44.1     | 45.7     | 49.0     | 50.2     | 51.8     | 52.0     | 52.3    | 53.3    | 54.6    | 54.7    | 55.1 |
| GE      | 5000  | 25.2                             | 33.8     | 36.4     | 41.5     | 44.5     | 48.1     | 49.8     | 53.2     | 54.4     | 55.9     | 56.1     | 56.5    | 57.4    | 58.9    | 59.0    | 59.5 |
| GE      | 4000  | 26.0                             | 35.2     | 37.9     | 42.9     | 46.0     | 49.6     | 51.2     | 54.6     | 55.8     | 57.3     | 57.5     | 57.9    | 58.9    | 60.3    | 61.4    | 61.5 |
| GE      | 4000  | 26.0                             | 35.7     | 36.5     | 43.7     | 46.0     | 49.6     | 52.1     | 55.6     | 56.8     | 58.3     | 58.5     | 58.9    | 59.8    | 61.3    | 61.4    | 61.5 |
| GE      | 3500  | 27.0                             | 37.0     | 39.8     | 45.2     | 48.4     | 52.0     | 53.6     | 57.1     | 58.3     | 59.8     | 60.1     | 60.4    | 61.4    | 62.8    | 63.0    | 63.5 |
| GE      | 3000  | 29.2                             | 39.9     | 42.9     | 48.5     | 51.0     | 55.4     | 57.2     | 60.9     | 62.1     | 63.7     | 63.9     | 64.2    | 65.2    | 66.6    | 67.7    | 68.1 |
| GE      | 2500  | 30.9                             | 42.3     | 45.3     | 50.9     | 54.4     | 58.1     | 60.0     | 63.8     | 65.1     | 66.6     | 66.8     | 67.2    | 68.2    | 68.6    | 68.7    | 69.1 |
| GE      | 2000  | 31.4                             | 43.5     | 46.5     | 52.2     | 55.7     | 59.6     | 61.5     | 65.3     | 66.7     | 68.3     | 68.5     | 68.9    | 69.9    | 71.1    | 71.2    | 71.4 |
| GE      | 1800  | 31.6                             | 44.3     | 47.4     | 53.3     | 56.8     | 60.7     | 62.7     | 66.6     | 68.1     | 69.7     | 69.9     | 70.4    | 71.3    | 72.2    | 72.3    | 72.4 |
| GE      | 1500  | 32.1                             | 45.3     | 48.4     | 54.3     | 57.9     | 61.8     | 63.9     | 68.1     | 69.5     | 71.1     | 71.3     | 71.6    | 72.8    | 74.0    | 74.1    | 74.2 |
| GE      | 1200  | 32.7                             | 46.5     | 49.7     | 55.8     | 59.4     | 63.3     | 65.4     | 69.8     | 71.2     | 73.0     | 73.2     | 73.6    | 74.6    | 75.1    | 75.2    | 75.3 |
| GE      | 1000  | 33.0                             | 46.9     | 50.4     | 56.5     | 60.1     | 64.1     | 66.2     | 70.7     | 72.2     | 74.1     | 74.7     | 74.7    | 75.1    | 75.1    | 75.1    | 75.1 |
| GE      | 900   | 33.0                             | 47.2     | 50.7     | 56.9     | 60.6     | 64.7     | 66.7     | 71.3     | 72.9     | 74.7     | 74.9     | 75.4    | 76.4    | 76.4    | 76.4    | 76.4 |
| GE      | 800   | 33.4                             | 47.8     | 51.6     | 58.8     | 62.5     | 66.5     | 68.6     | 73.2     | 74.7     | 76.7     | 76.9     | 77.4    | 78.1    | 78.1    | 78.1    | 78.1 |
| GE      | 700   | 33.6                             | 48.5     | 52.4     | 59.7     | 63.6     | 67.7     | 69.6     | 74.7     | 76.3     | 78.2     | 79.4     | 79.4    | 79.7    | 79.7    | 79.7    | 79.7 |
| GE      | 600   | 33.8                             | 49.3     | 53.5     | 61.2     | 65.0     | 69.3     | 71.3     | 76.6     | 78.1     | 80.1     | 80.7     | 81.1    | 81.1    | 81.1    | 81.1    | 81.1 |
| GE      | 500   | 32.8                             | 49.3     | 53.7     | 61.5     | 65.3     | 69.7     | 71.9     | 77.4     | 79.0     | 81.0     | 81.7     | 82.1    | 82.1    | 82.1    | 82.1    | 82.1 |
| GE      | 400   | 34.1                             | 50.0     | 54.6     | 62.7     | 66.8     | 71.3     | 73.7     | 79.5     | 81.3     | 83.3     | 83.7     | 84.1    | 84.1    | 84.1    | 84.1    | 84.1 |
| GE      | 300   | 34.1                             | 50.3     | 55.3     | 64.0     | 68.9     | 73.5     | 76.0     | 81.0     | 83.8     | 85.4     | 85.7     | 86.1    | 86.1    | 86.1    | 86.1    | 86.1 |
| GE      | 200   | 34.1                             | 50.5     | 55.7     | 64.8     | 69.9     | 74.7     | 77.2     | 83.3     | 85.3     | 87.4     | 87.7     | 87.7    | 87.7    | 87.7    | 87.7    | 87.7 |
| GE      | 100   | 34.1                             | 50.5     | 55.8     | 65.2     | 70.9     | 76.0     | 78.6     | 84.8     | 86.6     | 89.3     | 89.7     | 89.7    | 89.7    | 89.7    | 89.7    | 89.7 |
| GE      | 0     | 34.2                             | 50.5     | 55.8     | 65.2     | 70.9     | 76.0     | 78.6     | 84.9     | 87.1     | 90.1     | 90.7     | 90.7    | 90.7    | 90.7    | 90.7    | 90.7 |

TOTAL NUMBER OF OBSERVATIONS: 914

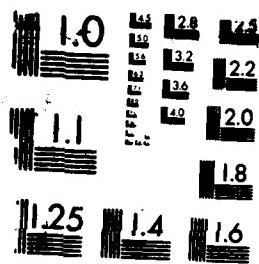
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BOSCOMBE DOWN UNITED KINGDOM LIMITED SURFACE  
OBSERVATIONS CLIMATIC SUMMAR (U) AIR FORCE  
ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER SCOTT AFB  
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MICROCOPY RESOLUTION TEST CHART

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 0600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 13.7                             | 19.4     | 20.1     | 21.9     | 23.6     | 24.8     | 25.8     | 26.8     | 27.7     | 28.0     | 28.5     | 28.5     | 29.3    | 29.6    | 29.7    | 30.3    |
| GE 20000              | 16.8                             | 23.6     | 24.6     | 26.7     | 28.8     | 30.3     | 31.5     | 33.0     | 34.3     | 35.2     | 35.6     | 35.6     | 36.5    | 37.0    | 37.4    | 38.2    |
| GE 18000              | 17.0                             | 23.8     | 24.8     | 26.9     | 29.0     | 30.5     | 31.7     | 33.3     | 34.5     | 35.4     | 35.8     | 35.8     | 36.7    | 37.3    | 37.6    | 38.4    |
| GE 16000              | 17.0                             | 23.8     | 24.8     | 26.9     | 29.0     | 30.5     | 31.7     | 33.3     | 34.5     | 35.4     | 35.8     | 35.8     | 36.7    | 37.3    | 37.6    | 38.4    |
| GE 14000              | 17.8                             | 25.0     | 26.0     | 28.1     | 30.3     | 31.7     | 32.9     | 34.5     | 35.7     | 36.6     | 37.0     | 37.0     | 37.9    | 38.5    | 38.8    | 39.6    |
| GE 12000              | 18.7                             | 26.7     | 27.7     | 30.1     | 32.4     | 33.8     | 35.3     | 36.8     | 38.2     | 39.3     | 39.7     | 39.9     | 40.8    | 41.4    | 41.7    | 42.5    |
| GE 10000              | 20.6                             | 29.1     | 30.1     | 32.9     | 35.3     | 36.7     | 38.3     | 39.8     | 41.2     | 42.3     | 42.7     | 43.2     | 44.0    | 44.6    | 44.9    | 45.7    |
| GE 9000               | 21.4                             | 30.0     | 31.0     | 34.1     | 36.7     | 38.2     | 39.8     | 41.4     | 42.7     | 43.8     | 44.3     | 44.7     | 45.6    | 46.2    | 46.5    | 47.3    |
| GE 8000               | 21.8                             | 30.5     | 31.6     | 34.9     | 37.6     | 39.0     | 40.7     | 42.3     | 43.6     | 44.7     | 45.2     | 45.6     | 46.5    | 47.1    | 47.4    | 48.2    |
| GE 7000               | 22.1                             | 30.9     | 32.0     | 35.5     | 38.2     | 39.9     | 41.6     | 43.2     | 44.6     | 45.7     | 46.3     | 46.7     | 47.6    | 48.2    | 48.5    | 49.3    |
| GE 6000               | 22.8                             | 32.3     | 33.6     | 37.3     | 39.9     | 41.7     | 43.4     | 45.1     | 46.5     | 47.6     | 49.2     | 49.6     | 50.5    | 50.1    | 50.4    | 51.2    |
| GE 5000               | 24.0                             | 34.3     | 35.7     | 39.6     | 42.5     | 44.3     | 46.1     | 47.7     | 49.2     | 50.3     | 50.8     | 51.3     | 52.2    | 52.8    | 53.2    | 53.9    |
| GE 4500               | 25.1                             | 36.0     | 37.6     | 41.7     | 44.8     | 46.6     | 48.5     | 50.4     | 51.8     | 52.9     | 53.5     | 53.9     | 54.8    | 55.5    | 56.8    | 56.6    |
| GE 4000               | 26.1                             | 37.5     | 39.2     | 43.3     | 46.5     | 48.4     | 50.3     | 52.2     | 53.6     | 54.7     | 55.3     | 55.7     | 56.7    | 57.4    | 57.7    | 58.5    |
| GE 3500               | 26.9                             | 38.4     | 40.0     | 44.2     | 47.5     | 49.4     | 51.3     | 53.2     | 54.6     | 55.7     | 56.3     | 56.7     | 57.7    | 58.4    | 58.7    | 59.5    |
| GE 3000               | 29.7                             | 41.4     | 43.0     | 47.3     | 50.7     | 52.6     | 54.6     | 56.6     | 58.1     | 59.2     | 59.7     | 60.2     | 61.2    | 61.8    | 62.2    | 63.0    |
| GE 2500               | 30.8                             | 43.2     | 44.8     | 49.3     | 53.1     | 55.1     | 57.1     | 59.3     | 60.8     | 62.0     | 62.5     | 63.0     | 64.1    | 64.7    | 65.1    | 65.9    |
| GE 2000               | 32.5                             | 45.3     | 46.9     | 51.7     | 56.1     | 58.2     | 60.2     | 62.4     | 64.0     | 65.1     | 65.6     | 66.1     | 67.2    | 67.9    | 68.2    | 69.0    |
| GE 1800               | 33.0                             | 45.9     | 47.6     | 52.7     | 57.2     | 59.3     | 61.3     | 63.5     | 65.1     | 66.2     | 66.7     | 67.2     | 68.3    | 69.0    | 69.3    | 70.1    |
| GE 1500               | 34.5                             | 47.7     | 49.5     | 54.7     | 59.3     | 61.7     | 64.0     | 66.3     | 67.9     | 69.0     | 69.5     | 70.0     | 71.1    | 71.7    | 72.1    | 72.9    |
| GE 1200               | 35.8                             | 49.9     | 52.1     | 57.4     | 62.0     | 64.4     | 66.6     | 69.1     | 70.6     | 71.7     | 72.3     | 72.7     | 73.9    | 74.5    | 74.9    | 75.6    |
| GE 1000               | 36.3                             | 50.7     | 52.8     | 58.4     | 63.0     | 65.4     | 67.6     | 70.2     | 71.9     | 73.0     | 73.5     | 74.0     | 75.1    | 75.8    | 76.1    | 6.9     |
| GE 900                | 36.8                             | 51.4     | 53.7     | 59.5     | 64.2     | 66.6     | 68.9     | 71.4     | 73.1     | 74.2     | 74.7     | 75.2     | 76.3    | 77.0    | 77.3    | 78.1    |
| GE 800                | 37.6                             | 52.5     | 55.1     | 61.0     | 65.6     | 68.1     | 70.4     | 73.0     | 74.7     | 75.9     | 76.4     | 76.9     | 78.0    | 78.6    | 79.0    | 79.8    |
| GE 700                | 38.0                             | 53.3     | 56.2     | 62.4     | 67.1     | 69.5     | 71.9     | 74.6     | 76.4     | 77.5     | 78.1     | 78.6     | 79.8    | 80.4    | 80.8    | 81.5    |
| GE 600                | 38.7                             | 54.7     | 57.8     | 64.5     | 69.4     | 72.0     | 74.3     | 77.4     | 79.2     | 80.3     | 80.9     | 81.4     | 82.5    | 83.2    | 83.5    | 84.3    |
| GE 500                | 38.8                             | 54.9     | 58.1     | 64.7     | 69.9     | 72.6     | 75.1     | 78.3     | 80.4     | 81.5     | 82.1     | 82.6     | 83.8    | 84.4    | 84.8    | 85.5    |
| GE 400                | 38.9                             | 55.3     | 58.8     | 65.9     | 71.5     | 74.5     | 77.2     | 80.5     | 82.8     | 83.9     | 84.4     | 85.0     | 86.1    | 86.8    | 87.1    | 87.9    |
| GE 300                | 39.0                             | 56.0     | 59.5     | 66.6     | 72.6     | 76.2     | 78.9     | 82.3     | 84.5     | 85.8     | 86.3     | 86.9     | 88.0    | 88.7    | 89.0    | 89.9    |
| GE 200                | 39.0                             | 56.1     | 59.7     | 67.3     | 73.9     | 77.6     | 80.4     | 84.3     | 86.8     | 88.2     | 88.8     | 89.3     | 90.4    | 91.2    | 91.5    | 92.4    |
| GE 100                | 39.0                             | 56.1     | 59.7     | 67.5     | 74.5     | 78.6     | 81.4     | 85.8     | 88.7     | 90.3     | 91.1     | 91.8     | 93.1    | 94.8    | 95.1    | 96.3    |
| GE 0                  | 39.0                             | 56.1     | 59.7     | 67.5     | 74.5     | 78.6     | 81.4     | 85.8     | 88.8     | 90.5     | 91.5     | 92.3     | 93.9    | 96.0    | 96.4    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |      |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |      |       |
| NO CEIL               | 18.2                             | 23.0     | 24.1     | 25.5     | 26.9     | 26.9     | 27.5     | 27.8     | 27.8     | 27.8     | 27.8     | 27.8    | 27.8    | 27.8    | 27.8    | 27.8 | 27.8 | 27.9  |
| GE 20000              | 24.2                             | 30.1     | 31.4     | 33.0     | 34.4     | 34.5     | 35.1     | 35.5     | 35.5     | 35.6     | 35.6     | 35.6    | 35.6    | 35.6    | 35.6    | 35.6 | 35.6 | 35.7  |
| GE 18000              | 24.2                             | 30.2     | 31.5     | 33.1     | 34.5     | 34.6     | 35.2     | 35.6     | 35.6     | 35.7     | 35.7     | 35.7    | 35.7    | 35.7    | 35.7    | 35.7 | 35.7 | 35.8  |
| GE 16000              | 24.2                             | 30.3     | 31.6     | 33.2     | 34.6     | 34.7     | 35.3     | 35.7     | 35.7     | 35.8     | 35.8     | 35.8    | 35.8    | 35.8    | 35.8    | 35.8 | 35.8 | 35.9  |
| GE 14000              | 24.7                             | 31.1     | 32.4     | 34.0     | 35.4     | 35.5     | 36.0     | 36.5     | 36.5     | 36.6     | 36.6     | 36.6    | 36.6    | 36.6    | 36.6    | 36.6 | 36.6 | 36.7  |
| GE 12000              | 25.9                             | 32.9     | 34.3     | 35.8     | 37.6     | 37.7     | 38.2     | 38.7     | 38.7     | 38.8     | 38.8     | 38.8    | 38.8    | 38.8    | 38.8    | 38.8 | 38.8 | 38.9  |
| GE 10000              | 28.4                             | 36.0     | 37.8     | 39.5     | 41.3     | 41.4     | 42.0     | 42.5     | 42.5     | 42.6     | 42.7     | 42.7    | 42.7    | 42.7    | 42.7    | 42.7 | 42.7 | 42.9  |
| GE 9000               | 29.9                             | 38.0     | 39.8     | 41.5     | 43.5     | 43.6     | 44.3     | 44.9     | 44.9     | 45.1     | 45.2     | 45.2    | 45.2    | 45.2    | 45.2    | 45.2 | 45.2 | 45.3  |
| GE 8000               | 30.1                             | 38.2     | 40.0     | 41.8     | 44.0     | 44.1     | 44.8     | 45.5     | 45.5     | 45.6     | 45.7     | 45.7    | 45.7    | 45.7    | 45.7    | 45.7 | 45.7 | 45.8  |
| GE 7000               | 30.4                             | 38.6     | 40.4     | 42.2     | 44.6     | 44.8     | 45.6     | 46.3     | 46.3     | 46.4     | 46.5     | 46.5    | 46.5    | 46.5    | 46.5    | 46.5 | 46.5 | 46.6  |
| GE 6000               | 31.1                             | 40.0     | 41.9     | 44.1     | 46.5     | 46.7     | 47.5     | 48.1     | 48.1     | 48.2     | 48.4     | 48.4    | 48.4    | 48.4    | 48.4    | 48.4 | 48.4 | 48.5  |
| GE 5000               | 42.4                             | 44.4     | 46.8     | 49.2     | 49.5     | 50.2     | 50.9     | 51.0     | 51.0     | 51.1     | 51.1     | 51.1    | 51.1    | 51.1    | 51.1    | 51.1 | 51.1 | 51.2  |
| GE 4500               | 35.1                             | 44.7     | 46.8     | 49.2     | 51.6     | 51.9     | 52.6     | 53.3     | 53.3     | 53.4     | 53.5     | 53.5    | 53.5    | 53.5    | 53.5    | 53.5 | 53.5 | 53.6  |
| GE 4000               | 38.9                             | 49.9     | 51.0     | 53.4     | 55.8     | 56.0     | 56.8     | 57.5     | 57.5     | 57.6     | 57.7     | 57.7    | 57.7    | 57.7    | 57.7    | 57.7 | 57.7 | 57.8  |
| GE 3500               | 41.5                             | 51.8     | 53.8     | 56.3     | 58.7     | 58.9     | 59.9     | 60.5     | 60.5     | 60.7     | 60.8     | 60.8    | 60.8    | 60.8    | 60.8    | 60.8 | 60.8 | 60.9  |
| GE 3000               | 44.2                             | 54.6     | 56.7     | 59.2     | 61.6     | 61.9     | 63.0     | 63.6     | 63.6     | 63.7     | 63.8     | 63.8    | 63.8    | 63.8    | 63.8    | 63.8 | 63.8 | 64.0  |
| GE 2500               | 48.2                             | 59.2     | 61.5     | 64.1     | 66.5     | 66.9     | 68.1     | 68.8     | 68.8     | 68.9     | 69.0     | 69.0    | 69.0    | 69.0    | 69.0    | 69.0 | 69.0 | 69.1  |
| GE 2000               | 53.3                             | 65.3     | 67.7     | 70.3     | 72.9     | 73.3     | 74.5     | 75.3     | 75.3     | 75.4     | 75.6     | 75.6    | 75.6    | 75.6    | 75.6    | 75.6 | 75.6 | 75.7  |
| GE 1800               | 55.3                             | 67.7     | 70.1     | 72.9     | 75.5     | 75.9     | 77.1     | 77.9     | 78.0     | 78.1     | 78.2     | 78.2    | 78.2    | 78.2    | 78.2    | 78.2 | 78.2 | 78.4  |
| GE 1500               | 57.7                             | 71.5     | 74.2     | 77.1     | 79.8     | 80.2     | 81.4     | 82.2     | 82.3     | 82.4     | 82.5     | 82.5    | 82.5    | 82.5    | 82.5    | 82.5 | 82.5 | 82.6  |
| GE 1200               | 59.9                             | 74.8     | 77.6     | 80.7     | 83.6     | 84.2     | 85.5     | 86.4     | 86.5     | 86.6     | 86.7     | 86.7    | 86.7    | 86.7    | 86.7    | 86.7 | 86.7 | 86.8  |
| GE 1000               | 60.7                             | 76.4     | 79.2     | 82.5     | 85.6     | 86.3     | 87.9     | 88.9     | 89.0     | 89.1     | 89.2     | 89.2    | 89.2    | 89.2    | 89.2    | 89.2 | 89.2 | 89.3  |
| GE 900                | 60.9                             | 76.7     | 79.6     | 83.1     | 86.3     | 86.9     | 88.6     | 89.7     | 89.8     | 89.9     | 90.0     | 90.0    | 90.0    | 90.0    | 90.0    | 90.0 | 90.0 | 90.1  |
| GE 800                | 61.1                             | 77.5     | 80.3     | 84.0     | 87.5     | 87.9     | 89.6     | 90.7     | 90.8     | 90.9     | 91.0     | 91.0    | 91.0    | 91.0    | 91.0    | 91.0 | 91.0 | 91.1  |
| GE 700                | 61.4                             | 78.7     | 81.8     | 85.4     | 88.9     | 89.7     | 91.3     | 92.4     | 92.5     | 92.6     | 92.7     | 92.7    | 92.7    | 92.7    | 92.7    | 92.7 | 92.7 | 92.9  |
| GE 600                | 61.6                             | 79.1     | 82.2     | 86.0     | 89.9     | 90.9     | 92.6     | 93.7     | 93.8     | 94.0     | 94.1     | 94.1    | 94.1    | 94.1    | 94.1    | 94.1 | 94.1 | 94.2  |
| GE 500                | 61.8                             | 79.7     | 82.9     | 86.9     | 90.8     | 92.0     | 93.8     | 95.1     | 95.2     | 95.3     | 95.4     | 95.4    | 95.4    | 95.4    | 95.4    | 95.4 | 95.4 | 95.5  |
| GE 400                | 61.8                             | 79.9     | 83.4     | 87.7     | 91.6     | 92.9     | 95.1     | 96.3     | 96.4     | 96.5     | 96.6     | 96.6    | 96.6    | 96.6    | 96.6    | 96.6 | 96.6 | 96.7  |
| GE 300                | 61.8                             | 80.1     | 83.6     | 88.1     | 92.7     | 93.5     | 95.8     | 97.1     | 97.5     | 97.6     | 97.7     | 97.7    | 97.7    | 97.7    | 97.7    | 97.7 | 97.7 | 97.8  |
| GE 200                | 61.8                             | 80.2     | 83.8     | 88.7     | 93.1     | 94.6     | 96.9     | 98.4     | 98.8     | 99.0     | 99.2     | 99.2    | 99.2    | 99.2    | 99.2    | 99.2 | 99.2 | 99.3  |
| GE 100                | 61.8                             | 80.2     | 83.8     | 88.7     | 93.2     | 94.8     | 97.1     | 98.6     | 99.0     | 99.3     | 99.6     | 99.6    | 99.6    | 99.6    | 99.6    | 99.6 | 99.6 | 99.7  |
| GE 0                  | 61.8                             | 80.2     | 83.8     | 88.7     | 93.2     | 94.8     | 97.1     | 98.6     | 99.0     | 99.3     | 99.6     | 99.6    | 99.6    | 99.6    | 99.6    | 99.6 | 99.6 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 910

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: ROSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 1200-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |       |       |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|-------|-------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |       |       |       |
| NO CEIL               | 19.0                             | 24.0     | 24.9     | 25.6     | 26.3     | 26.3     | 26.3     | 26.3     | 26.3     | 26.3     | 26.3     | 26.3    | 26.3    | 26.3    | 26.3    | 26.3  | 26.3  | 26.3  | 26.3  |
| GE 20000              | 27.3                             | 33.0     | 34.1     | 35.1     | 36.0     | 36.0     | 36.0     | 36.0     | 36.0     | 36.0     | 36.0     | 36.0    | 36.0    | 36.0    | 36.0    | 36.0  | 36.0  | 36.0  | 36.0  |
| GE 18000              | 27.6                             | 33.3     | 34.4     | 35.3     | 36.2     | 36.2     | 36.2     | 36.2     | 36.2     | 36.2     | 36.2     | 36.2    | 36.2    | 36.2    | 36.2    | 36.2  | 36.2  | 36.2  | 36.2  |
| GE 16000              | 27.7                             | 33.4     | 34.5     | 35.5     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3     | 36.3    | 36.3    | 36.3    | 36.3    | 36.3  | 36.3  | 36.3  | 36.3  |
| GE 14000              | 28.5                             | 34.5     | 35.6     | 36.6     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4     | 37.4    | 37.4    | 37.4    | 37.4    | 37.4  | 37.4  | 37.4  | 37.4  |
| GE 12000              | 29.5                             | 35.7     | 36.9     | 37.9     | 38.7     | 38.7     | 38.7     | 38.7     | 38.7     | 38.7     | 38.7     | 38.7    | 38.7    | 38.7    | 38.7    | 38.7  | 38.7  | 38.7  | 38.7  |
| GE 10000              | 31.0                             | 38.3     | 39.7     | 40.9     | 41.8     | 42.0     | 42.0     | 42.0     | 42.0     | 42.0     | 42.0     | 42.0    | 42.0    | 42.0    | 42.0    | 42.0  | 42.0  | 42.0  | 42.0  |
| GE 9000               | 31.7                             | 39.6     | 41.4     | 42.8     | 43.8     | 44.0     | 44.0     | 44.0     | 44.0     | 44.0     | 44.0     | 44.0    | 44.0    | 44.0    | 44.0    | 44.0  | 44.0  | 44.0  | 44.0  |
| GE 8000               | 32.2                             | 40.2     | 41.9     | 43.4     | 44.6     | 44.8     | 44.8     | 44.8     | 44.8     | 44.8     | 44.8     | 44.8    | 44.8    | 44.8    | 44.8    | 44.8  | 44.8  | 44.8  | 44.8  |
| GE 7000               | 32.5                             | 40.9     | 42.7     | 44.1     | 45.3     | 45.6     | 45.6     | 45.6     | 45.6     | 45.6     | 45.6     | 45.6    | 45.6    | 45.6    | 45.6    | 45.6  | 45.6  | 45.6  | 45.6  |
| GE 6000               | 33.8                             | 42.6     | 44.5     | 46.0     | 47.2     | 47.4     | 47.4     | 47.4     | 47.4     | 47.4     | 47.4     | 47.4    | 47.4    | 47.4    | 47.4    | 47.4  | 47.4  | 47.4  | 47.4  |
| GE 5000               | 39.4                             | 49.4     | 51.3     | 53.0     | 54.3     | 54.6     | 54.6     | 54.6     | 54.6     | 54.6     | 54.6     | 54.6    | 54.6    | 54.6    | 54.6    | 54.6  | 54.6  | 54.6  | 54.6  |
| GE 4500               | 43.9                             | 54.1     | 56.0     | 57.7     | 59.1     | 59.3     | 59.3     | 59.3     | 59.3     | 59.3     | 59.3     | 59.3    | 59.3    | 59.3    | 59.3    | 59.3  | 59.3  | 59.3  | 59.3  |
| GE 4000               | 50.1                             | 60.6     | 62.5     | 64.2     | 65.5     | 65.9     | 66.0     | 66.1     | 66.1     | 66.1     | 66.1     | 66.1    | 66.1    | 66.1    | 66.1    | 66.1  | 66.1  | 66.1  | 66.1  |
| GE 3500               | 52.5                             | 63.4     | 65.3     | 67.1     | 68.4     | 68.7     | 68.8     | 68.9     | 68.9     | 68.9     | 68.9     | 68.9    | 68.9    | 68.9    | 68.9    | 68.9  | 68.9  | 68.9  | 68.9  |
| GE 3000               | 56.1                             | 67.5     | 69.4     | 71.2     | 72.6     | 72.9     | 73.0     | 73.1     | 73.1     | 73.1     | 73.1     | 73.1    | 73.1    | 73.1    | 73.1    | 73.1  | 73.1  | 73.1  | 73.1  |
| GE 2500               | 60.6                             | 73.2     | 75.2     | 77.1     | 78.8     | 79.1     | 79.3     | 79.4     | 79.4     | 79.4     | 79.4     | 79.4    | 79.4    | 79.4    | 79.4    | 79.4  | 79.4  | 79.4  | 79.4  |
| GE 2000               | 64.9                             | 78.3     | 80.2     | 82.5     | 84.5     | 84.9     | 85.0     | 85.1     | 85.1     | 85.1     | 85.1     | 85.1    | 85.1    | 85.1    | 85.1    | 85.1  | 85.1  | 85.1  | 85.1  |
| GE 1800               | 66.8                             | 80.9     | 82.9     | 85.3     | 87.3     | 87.6     | 87.7     | 87.8     | 87.8     | 87.8     | 87.8     | 87.8    | 87.8    | 87.8    | 87.8    | 87.8  | 87.8  | 87.8  | 87.8  |
| GE 1500               | 68.9                             | 83.3     | 85.3     | 87.8     | 90.0     | 90.3     | 90.5     | 90.6     | 90.6     | 90.6     | 90.6     | 90.6    | 90.6    | 90.6    | 90.6    | 90.6  | 90.6  | 90.6  | 90.6  |
| GE 1200               | 70.9                             | 86.1     | 88.1     | 90.8     | 93.1     | 93.5     | 93.7     | 93.9     | 93.9     | 93.9     | 93.9     | 93.9    | 93.9    | 93.9    | 93.9    | 93.9  | 93.9  | 93.9  | 93.9  |
| GE 1000               | 71.6                             | 86.8     | 88.9     | 91.7     | 94.0     | 94.4     | 94.6     | 94.7     | 94.7     | 94.7     | 94.7     | 94.7    | 94.7    | 94.7    | 94.7    | 94.7  | 94.7  | 94.7  | 94.7  |
| GE 900                | 71.8                             | 87.2     | 89.2     | 92.0     | 94.3     | 94.7     | 95.1     | 95.2     | 95.2     | 95.2     | 95.2     | 95.2    | 95.2    | 95.2    | 95.2    | 95.2  | 95.2  | 95.2  | 95.2  |
| GE 800                | 71.8                             | 87.5     | 89.6     | 92.3     | 94.6     | 95.1     | 95.4     | 95.5     | 95.5     | 95.5     | 95.5     | 95.5    | 95.5    | 95.5    | 95.5    | 95.5  | 95.5  | 95.5  | 95.5  |
| GE 700                | 71.9                             | 87.7     | 89.9     | 92.6     | 95.0     | 95.4     | 95.7     | 95.8     | 95.8     | 95.8     | 95.8     | 95.8    | 95.8    | 95.8    | 95.8    | 95.8  | 95.8  | 95.8  | 95.8  |
| GE 600                | 71.9                             | 88.0     | 90.2     | 93.3     | 95.7     | 96.2     | 96.5     | 96.6     | 96.6     | 96.6     | 96.6     | 96.6    | 96.6    | 96.6    | 96.6    | 96.6  | 96.6  | 96.6  | 96.6  |
| GE 500                | 72.1                             | 88.7     | 90.9     | 94.2     | 96.7     | 97.5     | 97.8     | 98.0     | 98.0     | 98.0     | 98.0     | 98.0    | 98.0    | 98.0    | 98.0    | 98.0  | 98.0  | 98.0  | 98.0  |
| GE 400                | 72.1                             | 88.8     | 91.0     | 94.5     | 97.6     | 98.1     | 98.6     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9    | 98.9    | 98.9    | 98.9    | 98.9  | 98.9  | 98.9  | 98.9  |
| GE 300                | 72.1                             | 88.8     | 91.0     | 94.6     | 97.7     | 98.4     | 98.8     | 99.2     | 99.3     | 99.6     | 99.6     | 99.6    | 99.7    | 99.7    | 99.7    | 99.7  | 99.7  | 99.7  | 99.7  |
| GE 200                | 72.1                             | 88.8     | 91.0     | 94.7     | 97.8     | 98.5     | 99.1     | 99.6     | 99.7     | 99.9     | 99.9     | 99.9    | 100.0   | 100.0   | 100.0   | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 100                | 72.1                             | 88.8     | 91.0     | 94.7     | 97.8     | 98.5     | 99.1     | 99.6     | 99.7     | 99.9     | 99.9     | 99.9    | 100.0   | 100.0   | 100.0   | 100.0 | 100.0 | 100.0 | 100.0 |
| GE 0                  | 72.1                             | 88.8     | 91.0     | 94.7     | 97.8     | 98.5     | 99.1     | 99.6     | 99.7     | 99.9     | 99.9     | 99.9    | 100.0   | 100.0   | 100.0   | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 911

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 1500-1700

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |
| NO CEIL               | 21.4                             | 24.8     | 25.6     | 27.4     | 28.1     | 28.1     | 28.1     | 28.1     | 28.1     | 28.1     | 28.1     | 28.1    | 28.1    | 28.1    | 28.1    | 28.1  |
| GE 20000              | 30.3                             | 36.6     | 38.0     | 40.0     | 40.9     | 40.9     | 40.9     | 40.9     | 40.9     | 40.9     | 40.9     | 40.9    | 40.9    | 40.9    | 40.9    | 40.9  |
| GE 18000              | 30.6                             | 36.9     | 38.4     | 40.4     | 41.3     | 41.3     | 41.3     | 41.3     | 41.3     | 41.3     | 41.3     | 41.3    | 41.3    | 41.3    | 41.3    | 41.3  |
| GE 16000              | 30.6                             | 36.9     | 38.4     | 40.4     | 41.3     | 41.3     | 41.3     | 41.3     | 41.3     | 41.3     | 41.3     | 41.3    | 41.3    | 41.3    | 41.3    | 41.3  |
| GE 14000              | 31.0                             | 37.6     | 39.0     | 41.0     | 41.9     | 41.9     | 41.9     | 41.9     | 41.9     | 41.9     | 41.9     | 41.9    | 41.9    | 41.9    | 41.9    | 41.9  |
| GE 12000              | 32.8                             | 39.4     | 40.8     | 42.8     | 43.7     | 43.7     | 43.7     | 43.7     | 43.7     | 43.7     | 43.7     | 43.7    | 43.7    | 43.7    | 43.7    | 43.7  |
| GE 10000              | 35.7                             | 43.5     | 44.9     | 47.1     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9    | 47.9    | 47.9    | 47.9    | 47.9  |
| GE 9000               | 36.9                             | 45.4     | 46.8     | 49.1     | 50.1     | 50.2     | 50.2     | 50.2     | 50.2     | 50.2     | 50.2     | 50.2    | 50.2    | 50.2    | 50.2    | 50.2  |
| GE 8000               | 37.4                             | 46.1     | 47.5     | 49.7     | 50.7     | 50.8     | 50.8     | 50.8     | 50.8     | 50.8     | 50.8     | 50.8    | 50.8    | 50.8    | 50.8    | 50.8  |
| GE 7000               | 38.4                             | 47.2     | 48.6     | 50.9     | 51.9     | 52.2     | 52.2     | 52.2     | 52.2     | 52.2     | 52.2     | 52.2    | 52.2    | 52.2    | 52.2    | 52.2  |
| GE 6000               | 39.4                             | 48.8     | 50.4     | 52.7     | 53.7     | 53.9     | 53.9     | 53.9     | 53.9     | 53.9     | 53.9     | 53.9    | 53.9    | 53.9    | 53.9    | 53.9  |
| GE 5000               | 45.6                             | 56.5     | 58.4     | 60.7     | 61.8     | 62.1     | 62.1     | 62.1     | 62.2     | 62.2     | 62.2     | 62.2    | 62.3    | 62.3    | 62.3    | 62.3  |
| GE 4500               | 50.1                             | 61.8     | 63.8     | 66.2     | 67.3     | 67.5     | 67.5     | 67.5     | 67.6     | 67.6     | 67.6     | 67.6    | 67.7    | 67.7    | 67.7    | 67.7  |
| GE 4000               | 54.2                             | 66.2     | 68.3     | 70.7     | 71.9     | 72.1     | 72.1     | 72.1     | 72.2     | 72.2     | 72.2     | 72.2    | 72.3    | 72.3    | 72.3    | 72.3  |
| GE 3500               | 56.4                             | 68.9     | 71.0     | 73.5     | 74.7     | 75.0     | 75.0     | 75.0     | 75.1     | 75.1     | 75.1     | 75.1    | 75.2    | 75.2    | 75.2    | 75.2  |
| GE 3000               | 59.8                             | 72.6     | 74.9     | 77.5     | 78.6     | 79.0     | 79.0     | 79.0     | 79.1     | 79.1     | 79.1     | 79.1    | 79.2    | 79.2    | 79.2    | 79.2  |
| GE 2500               | 62.5                             | 76.3     | 78.6     | 81.3     | 82.5     | 82.8     | 82.8     | 82.8     | 82.9     | 82.9     | 82.9     | 82.9    | 83.0    | 83.0    | 83.0    | 83.0  |
| GE 2000               | 65.3                             | 79.6     | 82.3     | 85.4     | 86.7     | 86.9     | 86.9     | 87.0     | 87.0     | 87.0     | 87.0     | 87.0    | 87.1    | 87.1    | 87.1    | 87.1  |
| GE 1800               | 66.3                             | 81.0     | 83.8     | 87.0     | 88.3     | 88.5     | 88.5     | 88.5     | 88.7     | 88.7     | 88.7     | 88.7    | 88.8    | 88.8    | 88.8    | 88.8  |
| GE 1500               | 68.1                             | 83.3     | 86.2     | 89.5     | 90.9     | 91.1     | 91.2     | 91.2     | 91.3     | 91.3     | 91.3     | 91.3    | 91.4    | 91.4    | 91.4    | 91.4  |
| GE 1200               | 69.2                             | 84.6     | 87.7     | 91.1     | 92.7     | 93.0     | 93.2     | 93.2     | 93.3     | 93.3     | 93.3     | 93.3    | 93.4    | 93.4    | 93.4    | 93.4  |
| GE 1000               | 69.5                             | 85.1     | 88.4     | 91.9     | 93.4     | 93.8     | 94.0     | 94.0     | 94.1     | 94.1     | 94.1     | 94.1    | 94.2    | 94.2    | 94.2    | 94.2  |
| GE 900                | 69.9                             | 85.5     | 88.9     | 92.3     | 93.9     | 94.2     | 94.4     | 94.4     | 94.7     | 94.7     | 94.7     | 94.7    | 94.8    | 94.8    | 94.8    | 94.8  |
| GE 800                | 70.0                             | 85.8     | 89.1     | 92.5     | 93.1     | 94.4     | 94.7     | 94.7     | 94.9     | 94.9     | 94.9     | 94.9    | 95.0    | 95.0    | 95.0    | 95.0  |
| GE 700                | 70.1                             | 86.2     | 89.5     | 93.0     | 94.5     | 94.9     | 95.1     | 95.1     | 95.3     | 95.3     | 95.3     | 95.3    | 95.4    | 95.4    | 95.4    | 95.4  |
| GE 600                | 70.4                             | 87.4     | 90.8     | 94.7     | 96.3     | 96.7     | 97.0     | 97.0     | 97.2     | 97.2     | 97.2     | 97.2    | 97.3    | 97.3    | 97.3    | 97.3  |
| GE 500                | 70.5                             | 87.8     | 91.2     | 95.4     | 97.1     | 97.4     | 97.8     | 97.8     | 98.0     | 98.0     | 98.0     | 98.0    | 98.1    | 98.1    | 98.1    | 98.1  |
| GE 400                | 70.6                             | 88.0     | 91.5     | 95.9     | 97.8     | 98.2     | 98.6     | 98.6     | 98.8     | 98.8     | 98.9     | 98.9    | 99.0    | 99.0    | 99.0    | 99.0  |
| GE 300                | 70.6                             | 88.1     | 91.9     | 96.2     | 98.1     | 98.7     | 99.0     | 99.0     | 99.2     | 99.2     | 99.4     | 99.4    | 99.6    | 99.6    | 99.6    | 99.6  |
| GE 200                | 70.6                             | 88.1     | 92.0     | 96.3     | 98.2     | 98.8     | 99.1     | 99.1     | 99.4     | 99.4     | 99.7     | 99.7    | 99.8    | 99.8    | 99.8    | 99.8  |
| GE 100                | 70.6                             | 88.1     | 92.0     | 96.3     | 98.2     | 98.8     | 99.1     | 99.1     | 99.4     | 99.4     | 99.7     | 99.7    | 99.9    | 99.9    | 99.9    | 99.9  |
| GE 0                  | 70.6                             | 88.1     | 92.0     | 96.3     | 98.2     | 98.8     | 99.1     | 99.1     | 99.4     | 99.4     | 99.7     | 99.7    | 100.0   | 100.0   | 100.0   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 1800-2000

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 21.7                             | 27.8     | 28.2     | 29.8     | 31.0     | 31.7     | 32.0     | 32.3     | 32.3     | 32.3     | 32.3     | 32.3     | 32.3    | 32.3    | 32.3    | 32.3    |
| GE 20000              | 32.7                             | 41.1     | 42.3     | 44.3     | 46.2     | 47.0     | 47.4     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9     | 47.9    | 47.9    | 47.9    | 47.9    |
| GE 18000              | 32.8                             | 41.3     | 42.5     | 44.5     | 46.4     | 47.2     | 47.7     | 48.1     | 48.1     | 48.1     | 48.1     | 48.1     | 48.1    | 48.1    | 48.1    | 48.1    |
| GE 16000              | 32.8                             | 41.3     | 42.5     | 44.5     | 46.4     | 47.2     | 47.7     | 48.1     | 48.1     | 48.1     | 48.1     | 48.1     | 48.1    | 48.1    | 48.1    | 48.1    |
| GE 14000              | 38.4                             | 43.2     | 44.4     | 46.4     | 48.3     | 49.1     | 49.6     | 50.0     | 50.0     | 50.0     | 50.0     | 50.0     | 50.0    | 50.0    | 50.0    | 50.0    |
| GE 12000              | 35.6                             | 44.8     | 46.0     | 48.0     | 50.2     | 51.1     | 51.6     | 52.1     | 52.1     | 52.1     | 52.1     | 52.1     | 52.1    | 52.1    | 52.1    | 52.1    |
| GE 10000              | 38.2                             | 48.3     | 49.6     | 51.9     | 54.4     | 55.4     | 56.0     | 56.6     | 56.6     | 56.7     | 56.7     | 56.7     | 56.7    | 56.7    | 56.7    | 56.7    |
| GE 9000               | 39.0                             | 49.9     | 51.2     | 53.9     | 56.4     | 57.4     | 58.0     | 58.6     | 58.6     | 58.7     | 58.7     | 58.7     | 58.7    | 58.7    | 58.7    | 58.7    |
| GE 8000               | 39.0                             | 50.0     | 51.3     | 54.1     | 56.6     | 57.6     | 58.3     | 58.8     | 58.8     | 58.9     | 58.9     | 58.9     | 58.9    | 58.9    | 58.9    | 58.9    |
| GE 7000               | 39.2                             | 50.6     | 51.9     | 54.7     | 57.1     | 58.1     | 58.8     | 59.4     | 59.4     | 59.5     | 59.5     | 59.5     | 59.5    | 59.5    | 59.5    | 59.5    |
| GE 6000               | 40.8                             | 52.7     | 54.1     | 57.1     | 59.8     | 60.8     | 61.5     | 62.1     | 62.1     | 62.2     | 62.2     | 62.2     | 62.2    | 62.2    | 62.2    | 62.2    |
| GE 5000               | 45.2                             | 57.7     | 59.7     | 63.2     | 66.2     | 67.3     | 68.1     | 68.6     | 68.8     | 68.9     | 68.9     | 68.9     | 68.9    | 68.9    | 68.9    | 68.9    |
| GE 4500               | 48.4                             | 61.4     | 63.5     | 67.3     | 70.6     | 71.9     | 72.8     | 73.3     | 73.4     | 73.5     | 73.5     | 73.5     | 73.5    | 73.5    | 73.5    | 73.5    |
| GE 4000               | 49.9                             | 63.5     | 65.7     | 69.9     | 73.4     | 74.8     | 75.7     | 76.2     | 76.3     | 76.5     | 76.5     | 76.5     | 76.5    | 76.5    | 76.5    | 76.5    |
| GE 3500               | 51.0                             | 64.8     | 67.2     | 71.3     | 74.9     | 76.2     | 77.1     | 77.7     | 77.8     | 77.9     | 77.9     | 77.9     | 77.9    | 77.9    | 77.9    | 77.9    |
| GE 3000               | 54.0                             | 68.2     | 70.6     | 74.8     | 78.5     | 79.8     | 80.7     | 81.3     | 81.4     | 81.5     | 81.5     | 81.5     | 81.5    | 81.5    | 81.5    | 81.5    |
| GE 2500               | 56.5                             | 71.2     | 73.7     | 77.8     | 81.7     | 83.0     | 83.9     | 84.5     | 84.6     | 84.7     | 84.7     | 84.7     | 84.7    | 84.7    | 84.7    | 84.7    |
| GE 2000               | 58.8                             | 73.9     | 76.5     | 80.7     | 84.8     | 86.2     | 87.1     | 87.6     | 87.7     | 87.8     | 87.8     | 87.8     | 87.8    | 87.8    | 87.8    | 87.8    |
| GE 1800               | 59.7                             | 74.9     | 77.5     | 81.8     | 85.9     | 87.5     | 88.4     | 89.0     | 89.1     | 89.2     | 89.2     | 89.2     | 89.2    | 89.2    | 89.2    | 89.2    |
| GE 1500               | 60.9                             | 76.3     | 79.0     | 83.5     | 87.6     | 89.2     | 90.1     | 90.6     | 90.7     | 90.8     | 90.8     | 90.8     | 90.8    | 90.8    | 90.8    | 90.8    |
| GE 1200               | 62.2                             | 77.9     | 80.6     | 85.3     | 89.6     | 91.2     | 92.1     | 92.6     | 92.7     | 92.9     | 92.9     | 92.9     | 92.9    | 92.9    | 92.9    | 92.9    |
| GE 1000               | 62.6                             | 78.5     | 81.3     | 85.9     | 90.4     | 92.0     | 92.9     | 93.4     | 93.5     | 93.6     | 93.6     | 93.6     | 93.6    | 93.6    | 93.6    | 93.6    |
| GE 900                | 62.8                             | 78.8     | 81.6     | 86.3     | 90.7     | 92.3     | 93.4     | 94.0     | 94.1     | 94.2     | 94.2     | 94.2     | 94.2    | 94.2    | 94.2    | 94.2    |
| GE 800                | 63.1                             | 79.0     | 81.8     | 86.5     | 91.0     | 92.5     | 93.6     | 94.2     | 94.3     | 94.4     | 94.4     | 94.4     | 94.4    | 94.4    | 94.4    | 94.4    |
| GE 700                | 63.4                             | 79.6     | 82.4     | 87.2     | 91.7     | 93.4     | 94.5     | 95.1     | 95.2     | 95.3     | 95.3     | 95.3     | 95.3    | 95.3    | 95.3    | 95.3    |
| GE 600                | 63.4                             | 80.0     | 82.8     | 87.8     | 92.4     | 94.2     | 95.4     | 96.3     | 96.4     | 96.5     | 96.5     | 96.5     | 96.5    | 96.5    | 96.5    | 96.5    |
| GE 500                | 63.4                             | 80.2     | 83.0     | 88.3     | 93.0     | 94.8     | 96.0     | 96.9     | 97.0     | 97.1     | 97.1     | 97.1     | 97.1    | 97.1    | 97.1    | 97.1    |
| GE 400                | 63.4                             | 80.6     | 83.5     | 89.7     | 93.5     | 95.4     | 96.9     | 97.8     | 97.9     | 98.0     | 98.0     | 98.0     | 98.0    | 98.0    | 98.0    | 98.0    |
| GE 300                | 63.4                             | 80.6     | 83.5     | 89.0     | 94.0     | 96.2     | 97.7     | 98.8     | 99.0     | 99.1     | 99.1     | 99.1     | 99.1    | 99.1    | 99.1    | 99.1    |
| GE 200                | 63.4                             | 80.7     | 83.7     | 89.2     | 94.3     | 96.7     | 98.2     | 99.4     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    |
| GE 100                | 63.4                             | 80.7     | 83.7     | 89.2     | 94.3     | 96.7     | 98.2     | 99.6     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE 0                  | 63.4                             | 80.7     | 83.7     | 89.2     | 94.3     | 96.7     | 98.2     | 99.6     | 99.9     | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 896

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): 2100-2300

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>90 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |
| NO CEIL               | 21.0                             | 30.3     | 32.1     | 36.3     | 37.8     | 36.7     | 39.3     | 40.1     | 40.4     | 40.4     | 40.5     | 40.5     | 40.5    | 40.5    | 40.5    | 40.5    | 40.5  |  |
| GE 20000              | 27.1                             | 38.5     | 41.0     | 46.2     | 48.4     | 49.6     | 50.3     | 51.2     | 51.5     | 51.5     | 51.6     | 51.6     | 51.6    | 51.7    | 51.7    | 51.7    | 51.7  |  |
| GE 18000              | 27.1                             | 38.5     | 41.0     | 46.2     | 48.4     | 49.6     | 50.3     | 51.2     | 51.5     | 51.5     | 51.6     | 51.6     | 51.6    | 51.7    | 51.7    | 51.7    | 51.7  |  |
| GE 16000              | 27.1                             | 38.5     | 41.0     | 46.2     | 48.4     | 49.6     | 50.3     | 51.2     | 51.5     | 51.5     | 51.6     | 51.6     | 51.6    | 51.7    | 51.7    | 51.7    | 51.7  |  |
| GE 14000              | 27.9                             | 39.3     | 41.8     | 47.2     | 49.4     | 50.7     | 51.4     | 52.3     | 52.6     | 52.7     | 52.8     | 52.8     | 52.8    | 52.9    | 52.9    | 52.9    | 52.9  |  |
| GE 12000              | 28.4                             | 40.1     | 42.6     | 48.1     | 50.4     | 51.7     | 52.4     | 53.3     | 53.6     | 53.7     | 53.8     | 53.8     | 53.8    | 53.9    | 53.9    | 53.9    | 53.9  |  |
| GE 10000              | 30.1                             | 42.5     | 45.2     | 51.4     | 54.3     | 55.8     | 56.9     | 58.0     | 58.4     | 58.5     | 58.6     | 58.6     | 58.6    | 58.7    | 58.7    | 58.7    | 58.7  |  |
| GE 9000               | 30.5                             | 43.4     | 46.1     | 52.4     | 55.5     | 57.0     | 58.2     | 59.4     | 59.7     | 59.8     | 59.9     | 59.9     | 59.9    | 60.0    | 60.0    | 60.0    | 60.0  |  |
| GE 8000               | 30.9                             | 43.7     | 46.4     | 52.7     | 55.8     | 57.4     | 58.5     | 59.7     | 60.0     | 60.2     | 60.3     | 60.3     | 60.4    | 60.4    | 60.4    | 60.4    | 60.4  |  |
| GE 7000               | 31.0                             | 44.0     | 46.7     | 53.1     | 56.4     | 57.9     | 59.0     | 60.3     | 60.6     | 60.7     | 60.8     | 60.8     | 60.9    | 61.0    | 61.0    | 61.0    | 61.0  |  |
| GF 6000               | 31.9                             | 45.2     | 48.1     | 54.7     | 58.0     | 59.6     | 60.7     | 61.9     | 62.3     | 62.4     | 62.5     | 62.5     | 62.6    | 62.7    | 62.7    | 62.7    | 62.7  |  |
| GE 5000               | 33.9                             | 48.1     | 50.9     | 57.8     | 61.5     | 63.0     | 64.2     | 65.6     | 65.9     | 66.0     | 66.1     | 66.1     | 66.3    | 66.4    | 66.4    | 66.4    | 66.4  |  |
| GE 4500               | 36.1                             | 51.1     | 53.9     | 61.2     | 64.8     | 66.6     | 67.8     | 69.4     | 69.9     | 70.0     | 70.1     | 70.1     | 70.3    | 70.4    | 70.4    | 70.4    | 70.4  |  |
| GE 4000               | 37.1                             | 52.7     | 55.8     | 63.3     | 67.3     | 69.0     | 70.3     | 71.6     | 72.4     | 72.5     | 72.6     | 72.6     | 72.7    | 72.8    | 72.8    | 72.8    | 72.8  |  |
| GE 3500               | 38.6                             | 54.9     | 58.0     | 65.5     | 69.6     | 71.4     | 72.6     | 74.3     | 74.8     | 74.9     | 75.0     | 75.0     | 75.1    | 75.2    | 75.2    | 75.2    | 75.2  |  |
| GE 3000               | 41.6                             | 58.8     | 62.3     | 69.8     | 73.9     | 75.7     | 76.9     | 78.6     | 79.1     | 79.2     | 79.4     | 79.4     | 79.5    | 79.6    | 79.6    | 79.6    | 79.6  |  |
| GE 2500               | 43.6                             | 61.6     | 65.4     | 73.3     | 77.4     | 79.4     | 80.6     | 82.2     | 82.8     | 82.9     | 83.0     | 83.0     | 83.1    | 83.2    | 83.2    | 83.2    | 83.2  |  |
| GE 2000               | 45.6                             | 64.7     | 68.7     | 76.6     | 80.7     | 82.7     | 84.0     | 85.5     | 86.5     | 86.6     | 86.7     | 86.7     | 86.8    | 86.9    | 86.9    | 86.9    | 86.9  |  |
| GE 1800               | 46.1                             | 65.4     | 69.4     | 77.2     | 81.4     | 83.4     | 84.7     | 86.7     | 87.2     | 87.3     | 87.5     | 87.5     | 87.6    | 87.7    | 87.7    | 87.7    | 87.7  |  |
| GE 1500               | 46.7                             | 66.3     | 70.4     | 78.2     | 82.4     | 84.4     | 85.9     | 88.0     | 88.6     | 88.7     | 88.8     | 88.8     | 88.9    | 89.0    | 89.0    | 89.0    | 89.0  |  |
| GE 1200               | 47.6                             | 67.3     | 71.4     | 79.2     | 83.6     | 85.8     | 87.3     | 89.5     | 90.0     | 90.1     | 90.2     | 90.2     | 90.3    | 90.5    | 90.5    | 90.5    | 90.5  |  |
| GE 1000               | 48.2                             | 68.1     | 72.4     | 80.2     | 84.6     | 86.8     | 88.3     | 90.5     | 91.0     | 91.1     | 91.2     | 91.2     | 91.3    | 91.5    | 91.5    | 91.5    | 91.5  |  |
| GE 900                | 48.8                             | 68.9     | 73.1     | 81.0     | 85.3     | 87.7     | 89.2     | 91.3     | 91.9     | 92.0     | 92.1     | 92.1     | 92.2    | 92.3    | 92.3    | 92.3    | 92.3  |  |
| GE 800                | 49.2                             | 69.3     | 73.6     | 81.5     | 85.7     | 88.1     | 89.8     | 91.9     | 92.5     | 92.6     | 92.7     | 92.7     | 92.8    | 92.9    | 92.9    | 92.9    | 92.9  |  |
| GE 700                | 49.2                             | 69.7     | 74.0     | 81.9     | 86.2     | 88.6     | 90.2     | 92.3     | 92.9     | 93.0     | 93.1     | 93.1     | 93.2    | 93.3    | 93.3    | 93.3    | 93.3  |  |
| GE 600                | 49.4                             | 70.4     | 74.9     | 82.8     | 87.3     | 90.0     | 91.7     | 93.8     | 94.3     | 94.5     | 94.6     | 94.6     | 94.7    | 94.8    | 94.8    | 94.8    | 94.8  |  |
| GE 500                | 49.5                             | 70.5     | 75.0     | 83.0     | 87.9     | 90.6     | 92.3     | 94.5     | 95.0     | 95.2     | 95.3     | 95.3     | 95.4    | 95.6    | 95.6    | 95.6    | 95.6  |  |
| GE 400                | 49.6                             | 70.6     | 75.4     | 83.5     | 88.3     | 91.0     | 92.9     | 95.0     | 95.6     | 95.8     | 95.9     | 95.9     | 96.0    | 96.1    | 96.1    | 96.1    | 96.1  |  |
| GE 300                | 49.7                             | 70.8     | 75.6     | 84.0     | 89.1     | 92.0     | 94.0     | 96.2     | 96.8     | 97.0     | 97.1     | 97.1     | 97.2    | 97.3    | 97.3    | 97.3    | 97.3  |  |
| GE 200                | 49.7                             | 70.9     | 75.8     | 84.4     | 89.6     | 92.7     | 94.9     | 97.4     | 98.0     | 98.2     | 98.3     | 98.3     | 98.4    | 98.6    | 98.6    | 98.6    | 98.6  |  |
| GE 100                | 49.7                             | 70.9     | 75.8     | 84.8     | 89.8     | 93.2     | 95.4     | 98.2     | 98.9     | 99.1     | 99.4     | 99.4     | 99.6    | 99.8    | 99.9    | 99.9    | 99.9  |  |
| GE 0                  | 49.7                             | 70.9     | 75.8     | 84.4     | 89.8     | 93.2     | 95.6     | 98.3     | 99.0     | 99.2     | 99.6     | 99.7     | 99.9    | 100.0   | 100.0   | 100.0   | 100.0 |  |

TOTAL NUMBER OF OBSERVATIONS: 901

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VFRSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG HOURS(LST): ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 18.8                             | 24.9     | 26.0     | 28.4     | 30.0     | 30.8     | 31.4     | 32.3     | 32.6     | 32.9     | 33.0     | 33.0     | 33.2    | 33.5    | 33.5    | 33.8    |
| GE 20000              | 24.9                             | 32.6     | 34.1     | 36.9     | 38.8     | 39.8     | 40.6     | 41.6     | 42.0     | 42.4     | 42.5     | 42.6     | 42.8    | 43.1    | 43.1    | 43.5    |
| GE 18000              | 25.1                             | 32.8     | 34.2     | 37.0     | 39.0     | 40.0     | 40.7     | 41.8     | 42.2     | 42.5     | 42.7     | 42.7     | 43.0    | 43.2    | 43.3    | 43.6    |
| GE 16000              | 25.1                             | 32.8     | 34.3     | 37.1     | 39.0     | 40.0     | 40.7     | 41.8     | 42.2     | 42.6     | 42.7     | 42.8     | 43.0    | 43.3    | 43.3    | 43.7    |
| GE 14000              | 25.8                             | 33.7     | 35.2     | 38.0     | 39.9     | 41.0     | 41.7     | 42.7     | 43.2     | 43.5     | 43.6     | 43.7     | 43.9    | 44.2    | 44.3    | 44.6    |
| GE 12000              | 26.9                             | 35.2     | 36.7     | 39.6     | 41.7     | 42.7     | 43.5     | 44.6     | 45.0     | 45.4     | 45.5     | 45.6     | 45.9    | 46.1    | 46.2    | 46.6    |
| GE 10000              | 26.9                             | 38.2     | 39.6     | 43.0     | 45.2     | 46.3     | 47.2     | 48.3     | 48.8     | 49.2     | 49.3     | 49.5     | 49.7    | 50.0    | 50.0    | 50.4    |
| GE 9000               | 29.7                             | 39.4     | 41.1     | 44.4     | 46.8     | 47.9     | 48.8     | 50.1     | 50.5     | 51.0     | 51.1     | 51.2     | 51.5    | 51.7    | 51.8    | 52.1    |
| GE 8000               | 30.1                             | 39.8     | 41.5     | 44.9     | 47.3     | 48.5     | 49.4     | 50.7     | 51.1     | 51.6     | 51.7     | 51.8     | 52.1    | 52.3    | 52.4    | 52.7    |
| GE 7000               | 30.4                             | 40.3     | 42.0     | 45.4     | 47.9     | 49.2     | 50.1     | 51.4     | 51.9     | 52.3     | 52.4     | 52.6     | 52.8    | 53.1    | 53.2    | 53.5    |
| GE 6000               | 31.4                             | 41.7     | 43.6     | 47.2     | 49.7     | 51.0     | 52.0     | 53.2     | 53.7     | 54.1     | 54.3     | 54.4     | 54.7    | 55.0    | 55.0    | 55.4    |
| GE 5000               | 38.4                             | 45.7     | 47.8     | 51.6     | 54.3     | 55.7     | 56.7     | 58.1     | 58.6     | 59.0     | 59.2     | 59.3     | 59.6    | 59.9    | 59.9    | 60.3    |
| GE 4500               | 36.9                             | 48.7     | 50.9     | 54.9     | 57.7     | 59.1     | 60.2     | 61.6     | 62.1     | 62.7     | 62.7     | 62.8     | 63.1    | 63.4    | 63.5    | 63.8    |
| GE 4000               | 39.3                             | 51.6     | 53.8     | 57.9     | 60.8     | 62.3     | 63.4     | 64.8     | 65.4     | 65.8     | 66.0     | 66.1     | 66.4    | 66.7    | 66.7    | 67.1    |
| GE 3500               | 40.8                             | 53.4     | 55.7     | 59.9     | 62.8     | 64.3     | 65.4     | 66.8     | 67.4     | 67.8     | 68.0     | 68.1     | 68.4    | 68.7    | 68.8    | 69.1    |
| GE 3000               | 43.6                             | 56.7     | 59.1     | 63.4     | 66.3     | 67.9     | 69.1     | 70.5     | 71.1     | 71.5     | 71.7     | 71.8     | 72.1    | 72.4    | 72.5    | 72.8    |
| GE 2500               | 46.1                             | 60.1     | 62.6     | 66.9     | 70.1     | 71.7     | 72.9     | 74.4     | 75.0     | 75.5     | 75.6     | 75.7     | 76.0    | 76.3    | 76.4    | 76.7    |
| GE 2000               | 48.6                             | 63.2     | 65.9     | 70.4     | 73.7     | 75.4     | 76.6     | 78.3     | 78.9     | 79.3     | 79.5     | 79.6     | 79.9    | 80.2    | 80.3    | 80.6    |
| GE 1800               | 49.5                             | 64.5     | 67.2     | 71.8     | 75.2     | 76.9     | 78.1     | 79.8     | 80.5     | 80.9     | 81.1     | 81.2     | 81.5    | 81.8    | 81.9    | 82.2    |
| GE 1500               | 50.9                             | 66.4     | 69.2     | 73.9     | 77.4     | 79.1     | 80.4     | 82.2     | 82.9     | 83.3     | 83.4     | 83.6     | 83.9    | 84.2    | 84.3    | 84.6    |
| GE 1200               | 52.1                             | 68.4     | 71.2     | 76.1     | 79.7     | 81.5     | 82.8     | 84.7     | 85.3     | 85.8     | 86.1     | 86.4     | 86.7    | 86.8    | 87.1    | 87.1    |
| GE 1000               | 52.6                             | 69.1     | 72.1     | 77.1     | 80.7     | 82.5     | 84.0     | 85.8     | 86.5     | 87.0     | 87.2     | 87.3     | 87.6    | 87.9    | 88.0    | 88.3    |
| GE 900                | 52.9                             | 69.6     | 72.6     | 77.7     | 81.4     | 83.2     | 84.7     | 86.6     | 87.3     | 87.8     | 87.9     | 88.1     | 88.4    | 88.7    | 88.7    | 89.1    |
| GE 800                | 53.2                             | 70.1     | 73.2     | 78.4     | 82.1     | 83.9     | 85.4     | 87.4     | 88.1     | 88.6     | 88.7     | 88.9     | 89.2    | 89.5    | 89.6    | 89.9    |
| GE 700                | 53.4                             | 70.7     | 74.0     | 79.3     | 83.0     | 84.9     | 86.5     | 88.5     | 89.2     | 89.7     | 89.8     | 90.0     | 90.3    | 90.6    | 90.7    | 91.0    |
| GE 600                | 53.6                             | 71.5     | 74.8     | 80.4     | 84.3     | 86.3     | 87.9     | 90.0     | 90.7     | 91.2     | 91.4     | 91.6     | 91.9    | 92.2    | 92.3    | 92.6    |
| GE 500                | 53.7                             | 71.8     | 75.2     | 81.0     | 85.0     | 87.1     | 88.8     | 91.0     | 91.8     | 92.3     | 92.4     | 92.6     | 92.9    | 93.3    | 93.3    | 93.7    |
| GE 400                | 53.8                             | 72.1     | 75.7     | 81.7     | 85.9     | 88.1     | 89.9     | 92.2     | 93.0     | 93.5     | 93.7     | 93.9     | 94.2    | 94.5    | 94.6    | 94.9    |
| GE 300                | 53.8                             | 72.3     | 76.0     | 82.2     | 86.8     | 89.2     | 91.0     | 93.4     | 94.3     | 94.9     | 95.0     | 95.2     | 95.6    | 95.9    | 96.0    | 96.3    |
| GE 200                | 53.8                             | 72.4     | 76.2     | 82.6     | 87.3     | 89.8     | 91.8     | 94.3     | 95.3     | 95.9     | 96.1     | 96.3     | 96.7    | 97.0    | 97.1    | 97.5    |
| GE 100                | 53.8                             | 72.6     | 76.2     | 82.7     | 87.6     | 90.3     | 92.3     | 95.0     | 96.1     | 96.8     | 97.0     | 97.3     | 97.7    | 98.3    | 98.3    | 98.8    |
| GE 0                  | 53.8                             | 72.6     | 76.2     | 82.7     | 87.6     | 90.3     | 92.3     | 95.0     | 96.1     | 96.9     | 97.2     | 97.5     | 98.0    | 98.7    | 98.8    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 7220

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 0000-0200

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |  |  |
| NO CEIL               | 18.3                             | 25.5     | 27.1     | 29.7     | 32.4     | 34.2     | 34.9     | 36.4     | 37.3     | 38.6     | 38.8     | 38.9     | 39.3    | 39.6    | 39.7    | 40.5    |  |  |
| GE 20000              | 23.2                             | 31.5     | 33.3     | 36.1     | 39.0     | 40.9     | 41.6     | 43.8     | 44.7     | 46.1     | 46.3     | 46.5     | 46.8    | 47.1    | 47.2    | 48.3    |  |  |
| GE 18000              | 23.3                             | 31.6     | 33.4     | 36.2     | 39.1     | 41.1     | 41.7     | 43.9     | 44.8     | 46.2     | 46.5     | 46.6     | 46.9    | 47.2    | 47.4    | 48.4    |  |  |
| GE 16000              | 23.3                             | 31.7     | 33.5     | 36.3     | 39.3     | 41.2     | 41.8     | 44.0     | 44.9     | 46.3     | 46.6     | 46.7     | 47.0    | 47.4    | 47.5    | 48.5    |  |  |
| GE 14000              | 23.4                             | 32.1     | 34.0     | 36.8     | 39.7     | 41.6     | 42.3     | 44.4     | 45.3     | 46.8     | 47.0     | 47.1     | 47.5    | 47.8    | 47.9    | 48.9    |  |  |
| GE 12000              | 24.1                             | 32.8     | 34.9     | 37.8     | 40.8     | 42.7     | 43.5     | 45.8     | 46.7     | 48.1     | 48.4     | 48.5     | 48.8    | 49.2    | 49.3    | 50.3    |  |  |
| GE 10000              | 25.3                             | 35.3     | 37.3     | 40.5     | 43.5     | 45.4     | 46.2     | 48.5     | 49.4     | 50.8     | 51.2     | 51.3     | 51.6    | 52.0    | 52.1    | 53.1    |  |  |
| GE 9000               | 26.2                             | 36.9     | 38.9     | 42.1     | 45.3     | 47.2     | 48.0     | 50.3     | 51.2     | 52.6     | 53.0     | 53.1     | 53.4    | 53.8    | 53.9    | 54.9    |  |  |
| GE 8000               | 26.3                             | 37.2     | 39.3     | 42.4     | 45.7     | 47.6     | 48.4     | 50.6     | 51.5     | 53.0     | 53.3     | 53.4     | 53.8    | 54.1    | 54.2    | 55.2    |  |  |
| GE 7000               | 26.4                             | 37.3     | 39.4     | 42.5     | 45.8     | 47.7     | 48.5     | 50.7     | 51.6     | 53.1     | 53.4     | 53.5     | 53.9    | 54.2    | 54.3    | 55.3    |  |  |
| GE 6000               | 27.1                             | 38.2     | 40.3     | 43.4     | 46.7     | 48.6     | 49.4     | 51.6     | 52.5     | 54.0     | 54.3     | 54.4     | 54.8    | 55.1    | 55.2    | 56.2    |  |  |
| GE 5000               | 28.2                             | 40.6     | 42.6     | 45.9     | 49.5     | 51.5     | 52.3     | 54.8     | 55.7     | 57.3     | 57.6     | 57.7     | 58.2    | 58.5    | 58.6    | 59.6    |  |  |
| GE 4500               | 29.0                             | 41.7     | 43.9     | 47.2     | 51.0     | 53.1     | 54.0     | 56.6     | 57.6     | 59.2     | 59.5     | 59.6     | 60.1    | 60.4    | 60.5    | 61.5    |  |  |
| GE 4000               | 29.7                             | 43.0     | 45.2     | 48.6     | 52.6     | 54.8     | 55.8     | 58.4     | 59.5     | 61.1     | 61.4     | 61.5     | 62.0    | 62.3    | 62.4    | 63.4    |  |  |
| GE 3500               | 30.8                             | 44.3     | 46.6     | 50.1     | 54.1     | 56.2     | 57.3     | 59.8     | 61.1     | 62.7     | 63.0     | 63.1     | 63.6    | 63.9    | 64.0    | 65.0    |  |  |
| GE 3000               | 33.7                             | 47.9     | 50.3     | 53.8     | 58.3     | 60.4     | 61.4     | 64.0     | 65.4     | 66.9     | 67.3     | 67.4     | 67.8    | 68.2    | 68.3    | 69.4    |  |  |
| GE 2500               | 34.4                             | 49.7     | 52.2     | 55.8     | 60.3     | 62.4     | 63.4     | 66.0     | 67.4     | 69.0     | 69.3     | 69.4     | 69.9    | 70.2    | 70.3    | 71.4    |  |  |
| GE 2000               | 36.4                             | 52.3     | 55.1     | 58.7     | 63.4     | 65.6     | 66.6     | 69.2     | 70.5     | 72.1     | 72.4     | 72.6     | 73.1    | 73.5    | 73.6    | 74.7    |  |  |
| GE 1800               | 36.7                             | 53.0     | 55.9     | 59.5     | 64.3     | 66.5     | 67.6     | 70.2     | 71.5     | 73.1     | 73.5     | 73.6     | 74.1    | 74.5    | 74.6    | 75.7    |  |  |
| GE 1500               | 37.7                             | 54.6     | 57.6     | 61.3     | 66.1     | 68.3     | 69.4     | 72.0     | 73.5     | 75.0     | 75.4     | 75.5     | 76.0    | 76.4    | 76.5    | 77.6    |  |  |
| GE 1200               | 39.0                             | 56.7     | 59.8     | 63.6     | 68.4     | 70.6     | 71.8     | 74.5     | 75.9     | 77.5     | 77.8     | 78.0     | 78.5    | 78.9    | 79.0    | 80.1    |  |  |
| GE 1000               | 39.7                             | 57.9     | 61.2     | 65.0     | 69.9     | 72.1     | 73.2     | 75.9     | 77.4     | 79.0     | 79.3     | 79.4     | 80.0    | 80.3    | 80.4    | 81.6    |  |  |
| GE 900                | 40.4                             | 59.3     | 62.9     | 66.8     | 71.3     | 74.1     | 75.3     | 78.0     | 79.4     | 81.1     | 81.4     | 81.6     | 82.1    | 82.5    | 82.6    | 83.7    |  |  |
| GE 800                | 40.8                             | 60.1     | 63.7     | 67.6     | 72.6     | 74.9     | 76.0     | 79.1     | 80.7     | 82.3     | 82.7     | 82.8     | 83.4    | 83.7    | 83.8    | 84.9    |  |  |
| GE 700                | 41.3                             | 61.1     | 64.7     | 68.6     | 73.8     | 76.3     | 77.4     | 80.4     | 82.0     | 83.8     | 84.1     | 84.3     | 84.8    | 85.2    | 85.3    | 86.4    |  |  |
| GE 600                | 41.4                             | 61.3     | 65.2     | 69.6     | 75.0     | 77.6     | 78.7     | 81.9     | 83.5     | 85.3     | 85.6     | 85.7     | 86.3    | 86.6    | 86.7    | 87.9    |  |  |
| GE 500                | 41.7                             | 61.8     | 66.1     | 70.9     | 76.3     | 79.0     | 80.1     | 83.2     | 84.9     | 86.7     | 87.1     | 87.2     | 87.7    | 88.1    | 88.2    | 89.3    |  |  |
| GE 400                | 42.1                             | 62.5     | 67.3     | 72.4     | 78.1     | 80.8     | 81.9     | 85.3     | 87.0     | 88.8     | 89.1     | 89.2     | 89.8    | 90.1    | 90.2    | 91.3    |  |  |
| GE 300                | 42.1                             | 62.8     | 67.6     | 73.1     | 78.7     | 81.6     | 82.9     | 86.7     | 88.6     | 90.6     | 90.9     | 91.0     | 91.6    | 91.9    | 92.0    | 93.1    |  |  |
| GE 200                | 42.1                             | 62.9     | 67.8     | 73.5     | 79.3     | 82.1     | 83.5     | 87.3     | 89.3     | 91.3     | 91.9     | 92.0     | 92.7    | 93.3    | 93.4    | 94.5    |  |  |
| GE 100                | 42.1                             | 63.0     | 67.9     | 73.8     | 79.9     | 82.7     | 84.1     | 88.3     | 90.7     | 92.8     | 93.7     | 93.9     | 94.6    | 95.3    | 95.4    | 96.7    |  |  |
| GE 0                  | 42.1                             | 63.0     | 67.9     | 73.8     | 79.9     | 82.7     | 84.1     | 88.4     | 90.8     | 92.9     | 94.0     | 94.4     | 95.2    | 96.4    | 96.6    | 100.0   |  |  |

TOTAL NUMBER OF OBSERVATIONS: 889

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 0300-0500

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 17.2                             | 22.8     | 24.6     | 26.5     | 27.4     | 29.2     | 30.1     | 31.8     | 33.3     | 34.3     | 34.5     | 34.7     | 35.2    | 36.6    | 36.9    | 39.2    |
| GE 20000              | 20.1                             | 27.1     | 28.9     | 31.0     | 31.0     | 33.9     | 34.8     | 36.9     | 38.5     | 39.6     | 39.8     | 40.0     | 40.4    | 42.0    | 42.2    | 44.9    |
| GE 18000              | 20.1                             | 27.1     | 28.9     | 31.0     | 31.9     | 33.9     | 34.8     | 36.9     | 38.5     | 39.6     | 39.8     | 40.0     | 40.4    | 42.0    | 42.2    | 44.9    |
| GE 16000              | 20.1                             | 27.1     | 28.9     | 31.0     | 31.9     | 33.9     | 34.8     | 36.9     | 38.5     | 39.6     | 39.8     | 40.0     | 40.4    | 42.0    | 42.2    | 44.9    |
| GE 14000              | 20.2                             | 27.5     | 29.3     | 31.5     | 32.4     | 34.4     | 35.3     | 37.3     | 39.0     | 40.0     | 40.2     | 40.4     | 40.9    | 42.5    | 42.7    | 45.4    |
| GE 12000              | 21.0                             | 28.5     | 30.4     | 32.6     | 33.5     | 35.5     | 36.4     | 38.4     | 40.2     | 41.2     | 41.5     | 41.7     | 42.1    | 43.8    | 44.0    | 46.7    |
| GE 10000              | 22.6                             | 30.6     | 32.8     | 34.9     | 35.8     | 37.9     | 38.8     | 40.8     | 42.8     | 43.9     | 44.2     | 44.4     | 44.8    | 46.5    | 46.7    | 49.4    |
| GE 9000               | 23.5                             | 31.9     | 34.2     | 36.3     | 37.2     | 39.3     | 40.3     | 42.5     | 44.5     | 45.7     | 46.0     | 46.2     | 46.6    | 48.3    | 48.5    | 51.2    |
| GE 8000               | 23.5                             | 32.0     | 34.3     | 36.4     | 37.3     | 39.4     | 40.8     | 42.6     | 44.6     | 45.8     | 46.1     | 46.3     | 46.7    | 48.4    | 48.7    | 51.3    |
| GE 7000               | 23.8                             | 32.5     | 34.7     | 36.9     | 37.8     | 39.9     | 40.9     | 43.0     | 45.1     | 46.3     | 46.5     | 46.7     | 47.2    | 48.9    | 49.1    | 51.8    |
| GE 6000               | 23.9                             | 33.1     | 35.5     | 37.6     | 38.7     | 40.8     | 41.8     | 43.9     | 46.0     | 47.2     | 47.4     | 47.6     | 48.1    | 49.8    | 50.0    | 52.7    |
| GE 5000               | 26.2                             | 36.1     | 38.5     | 41.0     | 42.0     | 44.4     | 45.5     | 47.8     | 50.0     | 51.2     | 51.5     | 51.7     | 52.1    | 53.9    | 54.2    | 56.9    |
| GE 4500               | 26.9                             | 36.7     | 39.3     | 41.8     | 42.9     | 45.5     | 46.6     | 49.0     | 51.2     | 52.5     | 52.7     | 52.9     | 53.4    | 55.2    | 55.4    | 58.1    |
| GE 4000               | 27.5                             | 38.0     | 40.6     | 43.0     | 44.5     | 47.1     | 48.3     | 50.7     | 52.9     | 54.2     | 54.4     | 54.6     | 55.1    | 56.9    | 57.1    | 59.8    |
| GE 3500               | 29.0                             | 39.4     | 42.0     | 44.6     | 46.4     | 49.1     | 50.4     | 52.8     | 55.1     | 56.3     | 56.5     | 56.7     | 57.2    | 59.0    | 59.2    | 61.9    |
| GE 3000               | 30.4                             | 41.2     | 43.8     | 46.4     | 48.7     | 51.3     | 52.7     | 55.2     | 57.4     | 58.7     | 58.9     | 59.1     | 59.6    | 61.3    | 61.6    | 64.3    |
| GE 2500               | 32.4                             | 43.8     | 46.5     | 49.1     | 51.6     | 54.4     | 55.8     | 58.4     | 60.7     | 61.9     | 62.1     | 62.4     | 62.9    | 64.7    | 64.9    | 67.6    |
| GE 2000               | 33.9                             | 45.8     | 48.5     | 51.3     | 54.0     | 56.9     | 58.3     | 60.9     | 63.1     | 64.4     | 64.6     | 64.8     | 65.4    | 67.2    | 67.4    | 70.1    |
| GE 1800               | 34.4                             | 46.5     | 49.2     | 52.2     | 55.2     | 58.0     | 59.4     | 62.0     | 64.3     | 65.5     | 65.7     | 66.0     | 66.5    | 68.3    | 68.5    | 71.2    |
| GE 1500               | 35.2                             | 47.9     | 50.6     | 53.8     | 56.9     | 59.8     | 61.6     | 64.2     | 66.4     | 67.6     | 67.9     | 68.1     | 68.7    | 70.4    | 70.7    | 73.4    |
| GE 1200               | 36.6                             | 50.7     | 53.5     | 57.0     | 60.0     | 62.9     | 64.7     | 67.3     | 69.6     | 70.8     | 71.0     | 71.2     | 71.8    | 73.6    | 73.8    | 76.5    |
| GE 1000               | 37.5                             | 52.0     | 55.1     | 58.8     | 61.9     | 64.9     | 66.6     | 69.6     | 71.8     | 73.1     | 73.4     | 73.6     | 74.2    | 76.0    | 76.2    | 78.9    |
| GE 900                | 38.1                             | 53.3     | 56.5     | 60.2     | 63.5     | 66.5     | 68.3     | 71.1     | 73.4     | 74.7     | 74.9     | 75.2     | 75.7    | 77.5    | 77.8    | 80.4    |
| GE 800                | 38.3                             | 53.8     | 57.2     | 60.9     | 64.2     | 67.3     | 69.2     | 72.0     | 74.3     | 75.7     | 76.0     | 76.2     | 76.7    | 78.5    | 78.8    | 81.5    |
| GE 700                | 38.5                             | 54.5     | 58.0     | 61.8     | 65.1     | 68.3     | 70.2     | 73.3     | 75.5     | 77.1     | 77.3     | 77.5     | 78.1    | 79.9    | 80.1    | 82.8    |
| GE 600                | 38.5                             | 55.3     | 58.9     | 63.0     | 66.4     | 69.7     | 71.6     | 74.7     | 77.0     | 78.5     | 78.8     | 79.0     | 79.7    | 81.5    | 81.7    | 84.5    |
| GE 500                | 38.7                             | 55.8     | 59.7     | 64.4     | 68.0     | 71.3     | 73.3     | 76.6     | 79.0     | 80.6     | 80.8     | 81.0     | 81.7    | 83.5    | 83.7    | 86.5    |
| GE 400                | 39.1                             | 57.2     | 61.1     | 66.0     | 69.7     | 73.6     | 75.5     | 79.1     | 81.5     | 83.1     | 83.4     | 83.6     | 84.3    | 86.1    | 86.3    | 89.1    |
| GE 300                | 39.2                             | 57.5     | 61.8     | 67.3     | 71.0     | 75.2     | 77.4     | 81.2     | 83.6     | 85.3     | 85.5     | 85.7     | 86.4    | 88.2    | 88.4    | 91.3    |
| GE 200                | 39.2                             | 57.5     | 61.9     | 67.6     | 71.6     | 75.8     | 78.8     | 82.7     | 85.4     | 87.2     | 87.4     | 87.6     | 88.3    | 90.2    | 90.6    | 93.5    |
| GE 100                | 39.2                             | 57.5     | 61.9     | 67.6     | 71.8     | 76.2     | 79.3     | 83.5     | 86.4     | 88.4     | 88.7     | 88.9     | 89.6    | 91.6    | 91.9    | 95.4    |
| GE 0                  | 39.2                             | 57.5     | 61.9     | 67.6     | 71.8     | 76.2     | 79.3     | 83.5     | 86.6     | 88.9     | 89.2     | 89.6     | 90.3    | 93.1    | 94.0    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 890

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 0600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>49 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |  |  |
| NO CEIL               | 11.7                             | 15.8     | 16.5     | 18.2     | 19.1     | 19.8     | 20.4     | 22.7     | 23.5     | 24.7     | 24.7     | 24.9     | 25.3    | 26.4    | 26.5    | 28.6    |  |  |
| GE 20000              | 18.4                             | 23.4     | 24.3     | 26.6     | 28.1     | 29.2     | 30.0     | 32.5     | 33.4     | 34.6     | 34.6     | 35.0     | 35.9    | 37.0    | 37.1    | 39.5    |  |  |
| GE 18000              | 18.6                             | 23.5     | 24.4     | 26.7     | 28.2     | 29.3     | 30.1     | 32.6     | 33.5     | 34.7     | 34.7     | 35.1     | 36.0    | 37.1    | 37.2    | 39.6    |  |  |
| GF 16000              | 18.6                             | 23.5     | 24.4     | 26.8     | 28.3     | 29.4     | 30.2     | 32.7     | 33.6     | 34.8     | 34.8     | 35.2     | 36.1    | 37.2    | 37.3    | 39.7    |  |  |
| GE 14000              | 19.1                             | 24.5     | 25.5     | 27.8     | 29.3     | 30.4     | 31.3     | 33.8     | 34.7     | 36.0     | 36.1     | 36.4     | 37.3    | 38.5    | 38.6    | 41.0    |  |  |
| GE 12000              | 20.6                             | 26.5     | 27.6     | 30.0     | 31.6     | 32.7     | 33.7     | 36.2     | 37.2     | 38.5     | 38.6     | 38.9     | 39.8    | 41.1    | 41.2    | 43.8    |  |  |
| GE 10000              | 22.7                             | 29.1     | 30.2     | 32.7     | 34.3     | 35.5     | 36.5     | 39.0     | 40.0     | 41.3     | 41.5     | 41.9     | 42.8    | 44.0    | 44.1    | 46.7    |  |  |
| GE 9000               | 24.0                             | 30.7     | 31.8     | 34.5     | 36.2     | 37.4     | 38.5     | 41.0     | 42.0     | 43.2     | 43.4     | 43.8     | 44.7    | 45.9    | 46.0    | 48.6    |  |  |
| GE 8000               | 24.2                             | 31.0     | 32.1     | 34.8     | 36.5     | 37.9     | 38.9     | 41.4     | 42.4     | 43.7     | 43.9     | 44.2     | 45.1    | 46.4    | 46.5    | 49.1    |  |  |
| GE 7000               | 24.2                             | 31.2     | 32.4     | 35.1     | 36.8     | 38.1     | 39.1     | 41.6     | 42.6     | 43.9     | 44.2     | 44.6     | 45.5    | 46.7    | 46.8    | 49.4    |  |  |
| GE 6000               | 23.9                             | 31.9     | 33.1     | 35.9     | 37.6     | 38.9     | 39.9     | 42.4     | 43.4     | 44.7     | 45.0     | 45.4     | 46.3    | 47.5    | 47.6    | 50.2    |  |  |
| GF 5000               | 26.7                             | 34.8     | 36.5     | 39.5     | 41.2     | 42.5     | 43.6     | 46.2     | 47.3     | 48.5     | 48.9     | 49.2     | 50.1    | 51.5    | 51.6    | 54.2    |  |  |
| GE 4500               | 27.6                             | 36.2     | 37.9     | 40.8     | 42.6     | 44.0     | 45.1     | 47.9     | 49.0     | 50.2     | 50.6     | 50.9     | 51.8    | 53.2    | 53.3    | 55.9    |  |  |
| GE 4000               | 28.5                             | 37.2     | 38.9     | 41.9     | 43.8     | 45.1     | 46.4     | 49.2     | 50.3     | 51.6     | 51.9     | 52.3     | 53.2    | 54.5    | 54.6    | 57.2    |  |  |
| UF 3500               | 29.3                             | 38.3     | 40.0     | 43.0     | 45.0     | 46.4     | 47.6     | 50.5     | 51.6     | 52.8     | 53.7     | 53.5     | 54.4    | 55.8    | 55.9    | 58.5    |  |  |
| GE 3000               | 31.0                             | 40.2     | 42.0     | 45.1     | 47.7     | 49.1     | 50.3     | 53.2     | 54.3     | 55.5     | 55.9     | 56.2     | 57.4    | 58.7    | 58.9    | 61.5    |  |  |
| GE 2500               | 33.5                             | 43.3     | 45.1     | 48.5     | 51.1     | 52.5     | 53.8     | 56.7     | 57.8     | 59.0     | 59.4     | 59.7     | 60.9    | 62.2    | 62.4    | 65.0    |  |  |
| GE 2000               | 34.6                             | 44.6     | 46.6     | 50.2     | 52.8     | 54.2     | 55.5     | 58.4     | 59.5     | 60.7     | 61.1     | 61.4     | 62.6    | 63.9    | 64.1    | 66.7    |  |  |
| GE 1800               | 35.4                             | 45.5     | 47.5     | 51.4     | 54.0     | 55.3     | 56.8     | 59.6     | 60.7     | 62.0     | 62.3     | 62.7     | 63.8    | 65.2    | 65.4    | 68.0    |  |  |
| GE 1500               | 36.7                             | 47.1     | 49.1     | 52.9     | 55.5     | 56.9     | 58.6     | 61.4     | 62.6     | 63.9     | 64.3     | 64.6     | 65.7    | 67.1    | 67.3    | 69.9    |  |  |
| GE 1200               | 38.1                             | 48.9     | 51.1     | 55.2     | 58.0     | 59.5     | 61.3     | 64.3     | 65.4     | 66.7     | 67.1     | 67.4     | 68.6    | 69.9    | 70.1    | 72.7    |  |  |
| GE 1000               | 39.3                             | 50.5     | 52.9     | 57.1     | 60.2     | 62.0     | 64.0     | 67.1     | 68.2     | 69.6     | 69.9     | 70.2     | 71.4    | 72.7    | 73.0    | 75.6    |  |  |
| GE 900                | 39.7                             | 51.5     | 54.0     | 58.1     | 61.2     | 63.0     | 65.0     | 68.1     | 69.2     | 70.6     | 70.9     | 71.3     | 72.4    | 73.8    | 74.0    | 76.6    |  |  |
| GE 800                | 40.0                             | 51.8     | 54.3     | 58.5     | 61.8     | 63.7     | 65.7     | 68.9     | 70.0     | 71.5     | 71.8     | 72.2     | 73.3    | 74.7    | 74.9    | 77.5    |  |  |
| GE 700                | 40.6                             | 52.7     | 55.2     | 59.6     | 63.3     | 65.8     | 68.0     | 71.2     | 72.3     | 73.8     | 74.1     | 74.4     | 75.6    | 76.9    | 77.1    | 79.8    |  |  |
| GE 600                | 41.2                             | 54.1     | 56.7     | 61.3     | 65.2     | 68.0     | 70.2     | 73.6     | 74.9     | 76.4     | 76.8     | 77.3     | 78.4    | 79.8    | 80.0    | 82.6    |  |  |
| GE 500                | 41.3                             | 54.8     | 57.4     | 62.7     | 66.6     | 69.7     | 72.1     | 75.5     | 76.7     | 78.2     | 78.6     | 79.1     | 80.2    | 81.6    | 81.8    | 84.4    |  |  |
| GE 400                | 41.6                             | 55.5     | 58.7     | 64.5     | 68.8     | 72.5     | 75.1     | 79.0     | 80.2     | 81.7     | 82.1     | 82.6     | 83.7    | 85.1    | 85.3    | 87.9    |  |  |
| GE 300                | 41.9                             | 56.0     | 59.2     | 65.3     | 69.9     | 73.9     | 76.5     | 80.7     | 82.0     | 83.5     | 83.9     | 84.4     | 85.5    | 86.9    | 87.1    | 89.7    |  |  |
| GE 200                | 41.9                             | 56.3     | 59.5     | 66.2     | 71.4     | 75.3     | 78.3     | 83.4     | 85.1     | 86.9     | 87.3     | 87.8     | 88.9    | 90.3    | 90.5    | 93.1    |  |  |
| GE 100                | 41.9                             | 56.3     | 59.5     | 66.3     | 71.5     | 75.5     | 78.0     | 83.8     | 85.6     | 88.0     | 88.8     | 89.4     | 90.6    | 92.5    | 92.9    | 96.0    |  |  |
| GE 0                  | 41.9                             | 56.3     | 59.5     | 66.3     | 71.5     | 75.5     | 78.6     | 83.9     | 85.7     | 88.1     | 88.9     | 89.5     | 91.0    | 93.7    | 94.1    | 100.0   |  |  |

TOTAL NUMBER OF OBSERVATIONS: 984

GLOBAL CLIMATOLOGY BRANCH  
USAFAETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86

MONTH: SEP HOURS(LST): 0900-1100

| CEILING |       | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |      |  |
|---------|-------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|------|--|
| IN      | FEET  | GT<br>160                        | GE<br>90 | GE<br>90 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |      |  |
| NO CEIL | 16.8  | 20.0                             | 21.3     | 22.7     | 23.4     | 23.7     | 24.2     | 24.7     | 25.0     | 25.4     | 25.5     | 25.5     | 25.5    | 25.5    | 25.5    | 25.5    | 25.5  | 25.5 |  |
| GE      | 20000 | 23.7                             | 29.1     | 30.6     | 32.7     | 33.7     | 34.1     | 34.6     | 35.4     | 35.7     | 36.1     | 36.2     | 36.2    | 36.2    | 36.2    | 36.2    | 36.3  | 36.4 |  |
| GE      | 18000 | 23.7                             | 29.1     | 30.6     | 32.7     | 33.7     | 34.1     | 34.6     | 35.4     | 35.7     | 36.1     | 36.2     | 36.2    | 36.2    | 36.2    | 36.2    | 36.3  | 36.4 |  |
| GE      | 16000 | 23.7                             | 29.1     | 30.6     | 32.7     | 33.7     | 34.1     | 34.6     | 35.4     | 35.7     | 36.1     | 36.2     | 36.2    | 36.2    | 36.2    | 36.2    | 36.3  | 36.4 |  |
| GE      | 14000 | 24.4                             | 30.1     | 31.8     | 33.7     | 34.8     | 35.2     | 35.8     | 36.6     | 36.8     | 37.2     | 37.3     | 37.3    | 37.3    | 37.3    | 37.3    | 37.5  | 37.6 |  |
| GE      | 12000 | 25.8                             | 31.7     | 33.4     | 35.5     | 36.6     | 37.0     | 37.6     | 38.4     | 38.6     | 39.0     | 39.1     | 39.1    | 39.1    | 39.1    | 39.1    | 39.3  | 39.4 |  |
| GE      | 10000 | 28.2                             | 35.1     | 36.8     | 39.0     | 40.2     | 40.6     | 41.3     | 42.2     | 42.4     | 42.9     | 43.0     | 43.0    | 43.0    | 43.0    | 43.0    | 43.1  | 43.2 |  |
| GE      | 9000  | 29.9                             | 37.1     | 38.8     | 41.1     | 42.3     | 43.0     | 43.8     | 44.7     | 44.9     | 45.3     | 45.4     | 45.4    | 45.4    | 45.4    | 45.4    | 45.6  | 45.7 |  |
| GE      | 8000  | 30.1                             | 37.3     | 39.0     | 41.3     | 42.5     | 43.2     | 44.0     | 44.9     | 45.1     | 45.6     | 45.7     | 45.7    | 45.7    | 45.7    | 45.7    | 45.8  | 45.9 |  |
| GE      | 7000  | 30.4                             | 37.6     | 39.3     | 41.5     | 42.9     | 43.5     | 44.3     | 45.2     | 45.4     | 45.9     | 46.0     | 46.0    | 46.0    | 46.0    | 46.0    | 46.1  | 46.2 |  |
| GE      | 6000  | 31.5                             | 39.0     | 40.7     | 43.4     | 44.8     | 45.4     | 46.2     | 47.1     | 47.4     | 47.8     | 47.9     | 47.9    | 47.9    | 47.9    | 47.9    | 48.0  | 48.1 |  |
| GE      | 5000  | 33.3                             | 41.3     | 43.0     | 45.9     | 47.4     | 48.0     | 49.0     | 50.1     | 50.3     | 50.7     | 50.8     | 50.8    | 50.8    | 50.8    | 50.8    | 51.0  | 51.1 |  |
| GE      | 4500  | 35.3                             | 44.2     | 46.1     | 49.2     | 50.6     | 51.3     | 52.5     | 53.5     | 53.8     | 54.2     | 54.3     | 54.3    | 54.3    | 54.3    | 54.3    | 54.4  | 54.6 |  |
| GE      | 4000  | 37.0                             | 46.5     | 48.4     | 51.6     | 53.1     | 53.8     | 55.0     | 56.0     | 56.2     | 56.7     | 56.8     | 56.8    | 56.8    | 56.8    | 56.8    | 56.9  | 57.0 |  |
| GE      | 3500  | 38.1                             | 47.8     | 49.7     | 53.0     | 54.4     | 55.1     | 56.4     | 57.4     | 57.6     | 58.2     | 58.3     | 58.3    | 58.3    | 58.3    | 58.3    | 58.4  | 58.5 |  |
| GE      | 3000  | 39.7                             | 49.8     | 51.7     | 55.1     | 56.9     | 57.6     | 58.8     | 60.0     | 60.2     | 60.9     | 61.0     | 61.0    | 61.0    | 61.0    | 61.0    | 61.1  | 61.2 |  |
| GE      | 2500  | 43.0                             | 53.4     | 55.3     | 58.8     | 60.7     | 61.4     | 62.7     | 63.8     | 64.0     | 64.7     | 64.8     | 64.8    | 64.8    | 64.8    | 64.8    | 64.9  | 65.0 |  |
| GE      | 2000  | 47.7                             | 58.8     | 60.7     | 64.6     | 66.6     | 67.4     | 68.6     | 69.7     | 70.0     | 70.6     | 70.8     | 70.8    | 70.8    | 70.8    | 70.8    | 70.9  | 71.0 |  |
| GE      | 1800  | 50.2                             | 61.4     | 63.4     | 67.4     | 69.5     | 70.3     | 71.5     | 72.7     | 72.9     | 73.6     | 73.7     | 73.7    | 73.7    | 73.7    | 73.7    | 73.8  | 73.9 |  |
| GE      | 1500  | 53.2                             | 65.0     | 67.2     | 71.4     | 73.6     | 74.5     | 75.7     | 76.8     | 77.1     | 77.7     | 77.8     | 77.8    | 77.8    | 77.8    | 77.8    | 78.0  | 78.1 |  |
| GE      | 1200  | 55.9                             | 68.2     | 70.6     | 75.3     | 77.5     | 78.4     | 79.6     | 80.8     | 81.0     | 81.7     | 81.8     | 81.8    | 81.8    | 81.8    | 81.8    | 81.9  | 82.0 |  |
| GE      | 1000  | 57.4                             | 69.9     | 72.7     | 77.5     | 80.1     | 81.1     | 82.3     | 83.5     | 83.7     | 84.4     | 84.5     | 84.5    | 84.5    | 84.5    | 84.5    | 84.6  | 84.7 |  |
| GE      | 900   | 57.9                             | 71.1     | 74.1     | 79.0     | 81.6     | 92.6     | 83.8     | 84.9     | 85.2     | 85.8     | 85.9     | 85.9    | 85.9    | 85.9    | 85.9    | 86.1  | 86.2 |  |
| GE      | 800   | 58.4                             | 72.4     | 75.6     | 80.7     | 83.4     | 94.7     | 86.1     | 87.3     | 87.5     | 88.2     | 88.3     | 88.3    | 88.3    | 88.3    | 88.3    | 88.4  | 88.5 |  |
| GE      | 700   | 58.7                             | 73.2     | 76.5     | 81.7     | 84.5     | 95.9     | 87.5     | 88.8     | 89.0     | 89.7     | 89.8     | 89.8    | 89.8    | 89.8    | 89.8    | 89.9  | 90.0 |  |
| GE      | 600   | 58.9                             | 74.0     | 77.4     | 82.7     | 85.6     | 87.3     | 88.9     | 90.2     | 90.6     | 91.2     | 91.3     | 91.3    | 91.3    | 91.3    | 91.3    | 91.5  | 91.6 |  |
| GE      | 500   | 59.2                             | 74.8     | 78.3     | 83.9     | 87.1     | 88.8     | 90.4     | 91.9     | 92.2     | 92.9     | 93.0     | 93.0    | 93.0    | 93.0    | 93.0    | 93.1  | 93.3 |  |
| GE      | 400   | 59.2                             | 74.8     | 78.3     | 84.3     | 87.5     | 89.2     | 91.3     | 93.1     | 93.7     | 94.4     | 94.5     | 94.5    | 94.5    | 94.5    | 94.5    | 94.6  | 94.7 |  |
| GE      | 300   | 59.2                             | 74.9     | 78.5     | 84.6     | 88.1     | 90.0     | 92.5     | 94.8     | 95.4     | 96.2     | 96.3     | 96.3    | 96.3    | 96.3    | 96.3    | 96.4  | 96.5 |  |
| GE      | 200   | 59.2                             | 75.0     | 78.6     | 85.3     | 88.9     | 90.8     | 93.6     | 96.2     | 96.9     | 97.8     | 98.0     | 98.0    | 98.0    | 98.0    | 98.0    | 98.1  | 98.5 |  |
| GE      | 100   | 59.2                             | 75.0     | 78.6     | 85.3     | 89.0     | 91.0     | 93.8     | 96.4     | 97.2     | 98.1     | 98.4     | 98.4    | 98.5    | 98.5    | 98.5    | 99.2  | 99.7 |  |
| GE      | 0     | 59.2                             | 75.0     | 78.6     | 85.3     | 89.0     | 91.0     | 93.8     | 96.4     | 97.2     | 98.1     | 98.4     | 98.4    | 98.5    | 99.0    | 99.3    | 100.0 |      |  |

TOTAL NUMBER OF OBSERVATIONS: 889

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 1200-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 18.7                             | 22.8     | 23.0     | 23.3     | 24.1     | 24.6     | 24.9     | 25.1     | 25.1     | 25.1     | 25.1     | 25.1     | 25.1    | 25.1    | 25.1    | 25.1    |
| GE 20000              | 29.2                             | 36.0     | 36.4     | 37.1     | 38.0     | 38.4     | 38.8     | 39.0     | 39.0     | 39.0     | 39.0     | 39.0     | 39.0    | 39.0    | 39.0    | 39.0    |
| GE 18000              | 29.4                             | 36.2     | 36.6     | 37.3     | 38.2     | 38.7     | 39.0     | 39.2     | 39.2     | 39.2     | 39.2     | 39.2     | 39.2    | 39.2    | 39.2    | 39.2    |
| GE 16000              | 29.5                             | 36.3     | 36.8     | 37.4     | 38.3     | 38.8     | 39.1     | 39.3     | 39.3     | 39.3     | 39.3     | 39.3     | 39.3    | 39.3    | 39.3    | 39.3    |
| GE 14000              | 30.2                             | 37.1     | 37.5     | 38.2     | 39.1     | 39.6     | 39.9     | 40.1     | 40.1     | 40.1     | 40.1     | 40.1     | 40.1    | 40.1    | 40.1    | 40.1    |
| GE 12000              | 31.0                             | 37.9     | 38.3     | 39.0     | 39.9     | 40.4     | 40.7     | 40.9     | 40.9     | 40.9     | 40.9     | 40.9     | 40.9    | 40.9    | 40.9    | 40.9    |
| GE 10000              | 34.0                             | 41.5     | 42.2     | 43.0     | 43.9     | 44.3     | 44.6     | 44.9     | 44.9     | 44.9     | 44.9     | 44.9     | 44.9    | 44.9    | 44.9    | 44.9    |
| GE 9000               | 35.1                             | 43.0     | 43.6     | 44.4     | 45.4     | 46.0     | 46.3     | 46.6     | 46.6     | 46.6     | 46.6     | 46.6     | 46.6    | 46.6    | 46.6    | 46.6    |
| GE 8000               | 35.2                             | 43.1     | 43.7     | 44.6     | 45.7     | 46.2     | 46.6     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8     | 46.8    | 46.8    | 46.8    | 46.8    |
| GE 7000               | 35.9                             | 43.7     | 44.4     | 45.3     | 46.4     | 47.0     | 47.4     | 47.6     | 47.6     | 47.6     | 47.6     | 47.6     | 47.6    | 47.6    | 47.6    | 47.6    |
| GE 6000               | 36.6                             | 45.1     | 45.8     | 46.7     | 47.8     | 48.4     | 48.7     | 48.9     | 48.9     | 48.9     | 48.9     | 48.9     | 48.9    | 48.9    | 48.9    | 48.9    |
| GE 5000               | 39.6                             | 49.4     | 50.4     | 51.4     | 52.8     | 53.3     | 53.7     | 54.0     | 54.0     | 54.0     | 54.0     | 54.0     | 54.0    | 54.0    | 54.0    | 54.0    |
| GE 4500               | 42.2                             | 53.4     | 54.6     | 55.6     | 56.9     | 57.5     | 57.8     | 58.2     | 58.2     | 58.2     | 58.2     | 58.2     | 58.2    | 58.2    | 58.2    | 58.2    |
| GE 4000               | 47.6                             | 59.3     | 60.4     | 61.4     | 62.8     | 63.4     | 63.7     | 64.0     | 64.0     | 64.0     | 64.0     | 64.0     | 64.0    | 64.0    | 64.0    | 64.0    |
| GE 3500               | 50.1                             | 62.0     | 63.1     | 64.1     | 65.5     | 66.1     | 66.4     | 66.7     | 66.7     | 66.7     | 66.7     | 66.7     | 66.7    | 66.7    | 66.7    | 66.7    |
| GE 3000               | 52.4                             | 64.5     | 65.7     | 66.9     | 68.2     | 68.8     | 69.1     | 69.4     | 69.4     | 69.4     | 69.4     | 69.4     | 69.4    | 69.4    | 69.4    | 69.4    |
| GE 2500               | 57.7                             | 70.6     | 71.8     | 73.1     | 74.4     | 75.0     | 75.3     | 75.6     | 75.6     | 75.6     | 75.6     | 75.6     | 75.6    | 75.6    | 75.6    | 75.6    |
| GE 2000               | 61.3                             | 75.6     | 77.0     | 78.4     | 79.7     | 80.4     | 80.8     | 81.2     | 81.2     | 81.2     | 81.2     | 81.2     | 81.2    | 81.2    | 81.2    | 81.2    |
| GE 1800               | 63.6                             | 77.9     | 79.4     | 80.8     | 82.2     | 82.9     | 83.3     | 83.7     | 83.7     | 83.7     | 83.7     | 83.7     | 83.7    | 83.7    | 83.7    | 83.7    |
| GE 1500               | 65.2                             | 79.9     | 81.6     | 83.2     | 84.7     | 85.3     | 85.8     | 86.1     | 86.1     | 86.1     | 86.1     | 86.1     | 86.1    | 86.1    | 86.1    | 86.1    |
| GE 1200               | 68.4                             | 84.2     | 86.1     | 87.9     | 89.9     | 90.5     | 91.0     | 91.3     | 91.3     | 91.3     | 91.3     | 91.3     | 91.3    | 91.3    | 91.3    | 91.3    |
| GE 1000               | 69.4                             | 85.7     | 87.6     | 89.6     | 91.8     | 92.8     | 93.3     | 93.7     | 93.7     | 93.7     | 93.7     | 93.7     | 93.7    | 93.7    | 93.7    | 93.7    |
| GE 900                | 69.6                             | 86.1     | 88.0     | 90.2     | 92.7     | 93.7     | 94.3     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6     | 94.6    | 94.6    | 94.6    | 94.6    |
| GE 800                | 70.0                             | 86.9     | 88.8     | 91.0     | 93.6     | 94.6     | 95.2     | 95.7     | 95.7     | 95.7     | 95.7     | 95.7     | 95.7    | 95.7    | 95.7    | 95.7    |
| GE 700                | 70.2                             | 87.5     | 89.5     | 91.7     | 94.3     | 95.4     | 95.9     | 96.5     | 96.5     | 96.5     | 96.5     | 96.5     | 96.5    | 96.5    | 96.5    | 96.5    |
| GE 600                | 70.3                             | 87.7     | 89.7     | 91.9     | 94.5     | 95.7     | 96.3     | 96.8     | 96.8     | 96.8     | 96.8     | 96.8     | 96.8    | 96.8    | 96.8    | 96.8    |
| GE 500                | 70.5                             | 87.9     | 90.0     | 92.4     | 95.0     | 96.4     | 97.0     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6     | 97.6    | 97.6    | 97.6    | 97.6    |
| GE 400                | 70.5                             | 87.9     | 90.1     | 92.6     | 95.2     | 96.6     | 97.4     | 98.3     | 98.4     | 98.4     | 98.4     | 98.4     | 98.4    | 98.4    | 98.4    | 98.4    |
| GE 300                | 70.5                             | 87.9     | 90.1     | 92.6     | 95.4     | 96.8     | 97.9     | 99.1     | 99.2     | 99.3     | 99.3     | 99.3     | 99.3    | 99.3    | 99.3    | 99.3    |
| GE 200                | 70.5                             | 87.9     | 90.1     | 92.6     | 95.4     | 97.0     | 98.0     | 99.3     | 99.4     | 99.8     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    |
| GE 100                | 70.5                             | 87.9     | 90.1     | 92.6     | 95.4     | 97.0     | 98.0     | 99.3     | 99.4     | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |
| GE                    | 70.5                             | 87.9     | 90.1     | 92.6     | 95.4     | 97.0     | 98.0     | 99.3     | 99.4     | 100.0    | 100.0    | 100.0    | 100.0   | 100.0   | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 887

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 1500-1700

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 18.4                             | 20.5     | 24.8     | 25.1     | 26.2     | 26.3     | 26.3     | 26.3     | 26.3     | 26.3     | 26.3     | 26.3     | 26.3    | 26.3    | 26.3    | 26.3    |
| GE 20000              | 32.7                             | 41.6     | 42.4     | 42.8     | 43.9     | 44.0     | 44.3     | 44.3     | 44.3     | 44.3     | 44.3     | 44.3     | 44.3    | 44.3    | 44.3    | 44.3    |
| GE 18000              | 32.7                             | 41.6     | 42.4     | 42.8     | 43.9     | 44.0     | 44.3     | 44.3     | 44.3     | 44.3     | 44.3     | 44.3     | 44.3    | 44.3    | 44.3    | 44.3    |
| GE 16000              | 32.7                             | 41.6     | 42.4     | 42.8     | 43.9     | 44.0     | 44.3     | 44.3     | 44.3     | 44.3     | 44.3     | 44.3     | 44.3    | 44.3    | 44.3    | 44.3    |
| GE 14000              | 34.2                             | 43.4     | 44.2     | 44.6     | 45.7     | 45.8     | 46.1     | 46.1     | 46.1     | 46.1     | 46.1     | 46.1     | 46.1    | 46.1    | 46.1    | 46.1    |
| GE 12000              | 36.4                             | 46.1     | 46.9     | 47.6     | 48.7     | 48.8     | 49.2     | 49.2     | 49.2     | 49.2     | 49.2     | 49.2     | 49.2    | 49.2    | 49.2    | 49.2    |
| GE 10000              | 38.8                             | 49.6     | 50.5     | 51.2     | 52.3     | 52.5     | 52.9     | 52.9     | 52.9     | 52.9     | 52.9     | 52.9     | 52.9    | 52.9    | 52.9    | 52.9    |
| GE 9000               | 39.3                             | 50.2     | 51.1     | 51.7     | 53.0     | 53.3     | 53.6     | 53.6     | 53.6     | 53.6     | 53.6     | 53.6     | 53.6    | 53.6    | 53.6    | 53.6    |
| GE 8000               | 39.4                             | 50.3     | 51.2     | 51.9     | 53.1     | 53.4     | 53.8     | 53.8     | 53.8     | 53.8     | 53.8     | 53.8     | 53.8    | 53.8    | 53.8    | 53.8    |
| GE 7000               | 39.8                             | 50.7     | 51.6     | 52.3     | 53.5     | 53.9     | 54.2     | 54.2     | 54.2     | 54.2     | 54.2     | 54.2     | 54.2    | 54.2    | 54.2    | 54.2    |
| GE 6000               | 40.9                             | 52.6     | 53.5     | 54.2     | 55.6     | 55.9     | 56.3     | 56.3     | 56.3     | 56.3     | 56.3     | 56.3     | 56.3    | 56.3    | 56.3    | 56.3    |
| GE 5000               | 45.2                             | 58.0     | 59.4     | 60.0     | 61.5     | 61.8     | 62.3     | 62.3     | 62.3     | 62.3     | 62.3     | 62.3     | 62.3    | 62.3    | 62.3    | 62.3    |
| GE 4500               | 48.8                             | 62.4     | 63.7     | 64.6     | 66.2     | 66.6     | 67.0     | 67.2     | 67.2     | 67.2     | 67.2     | 67.2     | 67.2    | 67.2    | 67.2    | 67.2    |
| GE 4000               | 52.0                             | 66.1     | 67.6     | 68.5     | 70.1     | 70.5     | 70.9     | 71.2     | 71.2     | 71.2     | 71.2     | 71.2     | 71.2    | 71.2    | 71.2    | 71.2    |
| GE 3500               | 53.6                             | 68.1     | 69.6     | 70.5     | 72.2     | 72.5     | 73.0     | 73.2     | 73.2     | 73.2     | 73.2     | 73.2     | 73.2    | 73.2    | 73.2    | 73.2    |
| GE 3000               | 56.2                             | 70.9     | 72.4     | 73.3     | 75.0     | 75.3     | 75.8     | 76.0     | 76.0     | 76.0     | 76.0     | 76.0     | 76.0    | 76.0    | 76.0    | 76.0    |
| GE 2500               | 59.7                             | 75.2     | 76.9     | 77.9     | 79.8     | 80.1     | 80.7     | 80.9     | 80.9     | 80.9     | 80.9     | 80.9     | 80.9    | 80.9    | 80.9    | 80.9    |
| GE 2000               | 62.3                             | 78.6     | 80.5     | 81.5     | 83.6     | 84.1     | 84.6     | 85.0     | 85.0     | 85.0     | 85.0     | 85.0     | 85.0    | 85.0    | 85.0    | 85.0    |
| GE 1800               | 63.9                             | 80.6     | 82.6     | 83.8     | 86.1     | 86.5     | 87.1     | 87.4     | 87.4     | 87.4     | 87.4     | 87.4     | 87.4    | 87.4    | 87.4    | 87.4    |
| GE 1500               | 64.4                             | 81.7     | 83.7     | 85.0     | 87.3     | 87.8     | 88.3     | 88.7     | 88.7     | 88.7     | 88.7     | 88.7     | 88.7    | 88.7    | 88.7    | 88.7    |
| GE 1200               | 65.8                             | 83.2     | 85.3     | 86.6     | 89.6     | 90.0     | 90.6     | 90.9     | 90.9     | 90.9     | 90.9     | 90.9     | 90.9    | 90.9    | 90.9    | 90.9    |
| GE 1000               | 66.4                             | 84.2     | 86.4     | 87.9     | 90.9     | 91.4     | 92.1     | 92.6     | 92.7     | 92.7     | 92.7     | 92.7     | 92.7    | 92.7    | 92.7    | 92.7    |
| GE 900                | 66.7                             | 84.8     | 87.1     | 88.8     | 91.6     | 92.3     | 93.0     | 93.5     | 93.7     | 93.7     | 93.7     | 93.7     | 93.7    | 93.7    | 93.7    | 93.7    |
| GE 800                | 66.8                             | 85.0     | 87.3     | 89.0     | 92.1     | 92.6     | 93.4     | 93.8     | 94.1     | 94.1     | 94.1     | 94.1     | 94.1    | 94.1    | 94.1    | 94.1    |
| GE 700                | 67.1                             | 85.6     | 88.1     | 90.0     | 93.2     | 93.6     | 94.4     | 94.8     | 95.1     | 95.1     | 95.1     | 95.1     | 95.1    | 95.1    | 95.1    | 95.1    |
| GE 600                | 67.2                             | 86.2     | 88.7     | 91.0     | 94.5     | 94.9     | 95.7     | 96.4     | 96.9     | 96.9     | 96.9     | 96.9     | 96.9    | 96.9    | 96.9    | 96.9    |
| GE 500                | 67.5                             | 86.5     | 89.0     | 91.4     | 94.8     | 95.3     | 96.1     | 96.7     | 97.2     | 97.2     | 97.2     | 97.2     | 97.2    | 97.2    | 97.2    | 97.2    |
| GE 400                | 67.5                             | 86.6     | 89.1     | 91.5     | 95.1     | 95.6     | 96.6     | 97.4     | 97.9     | 97.9     | 97.9     | 97.9     | 97.9    | 97.9    | 97.9    | 97.9    |
| GE 300                | 67.5                             | 86.8     | 89.2     | 91.7     | 95.3     | 96.1     | 97.2     | 98.3     | 98.9     | 98.9     | 98.9     | 98.9     | 98.9    | 98.9    | 98.9    | 98.9    |
| GE 200                | 67.5                             | 86.8     | 89.2     | 91.9     | 95.5     | 96.5     | 97.8     | 99.1     | 99.7     | 99.8     | 99.8     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    |
| GE 100                | 67.5                             | 86.8     | 89.2     | 91.9     | 95.5     | 96.5     | 97.8     | 99.1     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9    | 99.9    | 100.0   | 100.0   |
| GE 01                 | 67.5                             | 86.8     | 89.2     | 91.9     | 95.5     | 96.5     | 97.8     | 99.1     | 99.7     | 99.8     | 99.9     | 99.9     | 99.9    | 99.9    | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH  
USAFCETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 1800-2000

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |      |      |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|------|------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |      |      |
| NO CEIL               | 20.7                             | 29.6     | 31.3     | 33.2     | 34.1     | 34.8     | 35.1     | 35.8     | 36.3     | 36.3     | 36.3     | 36.3    | 36.3    | 36.3    | 36.3    | 36.3 | 36.3 | 36.3 |
| GE 2000               | 31.0                             | 43.2     | 45.6     | 47.9     | 49.2     | 49.9     | 50.3     | 51.3     | 52.1     | 52.1     | 52.2     | 52.2    | 52.2    | 52.2    | 52.2    | 52.2 | 52.2 | 52.2 |
| GE 18000              | 31.3                             | 43.4     | 45.8     | 48.1     | 49.4     | 50.2     | 50.5     | 51.5     | 52.3     | 52.3     | 52.4     | 52.4    | 52.4    | 52.4    | 52.4    | 52.4 | 52.4 | 52.4 |
| GE 16000              | 31.3                             | 43.4     | 45.8     | 48.1     | 49.4     | 50.2     | 50.5     | 51.5     | 52.3     | 52.3     | 52.4     | 52.4    | 52.4    | 52.4    | 52.4    | 52.4 | 52.4 | 52.4 |
| GE 14000              | 31.7                             | 44.0     | 46.3     | 48.7     | 49.9     | 50.7     | 51.1     | 52.1     | 52.9     | 52.9     | 53.0     | 53.0    | 53.0    | 53.0    | 53.0    | 53.0 | 53.0 | 53.0 |
| GE 12000              | 33.0                             | 45.8     | 48.1     | 50.5     | 51.7     | 52.5     | 52.9     | 53.9     | 54.7     | 54.7     | 54.8     | 54.8    | 54.8    | 54.8    | 54.8    | 54.8 | 54.8 | 54.8 |
| GE 10000              | 36.2                             | 49.8     | 52.4     | 55.1     | 56.5     | 57.3     | 57.6     | 58.6     | 59.4     | 59.4     | 59.5     | 59.5    | 59.5    | 59.5    | 59.5    | 59.5 | 59.5 | 59.5 |
| GE 9000               | 37.5                             | 51.2     | 53.9     | 56.6     | 57.9     | 58.7     | 59.1     | 60.1     | 60.9     | 60.9     | 61.0     | 61.0    | 61.0    | 61.0    | 61.0    | 61.0 | 61.0 | 61.0 |
| GE 8000               | 37.6                             | 51.4     | 54.1     | 56.8     | 58.3     | 59.1     | 59.5     | 60.5     | 61.3     | 61.3     | 61.4     | 61.4    | 61.4    | 61.4    | 61.4    | 61.4 | 61.4 | 61.4 |
| GE 7000               | 37.8                             | 51.6     | 54.3     | 57.0     | 58.5     | 59.3     | 59.7     | 60.7     | 61.5     | 61.5     | 61.6     | 61.6    | 61.6    | 61.6    | 61.6    | 61.6 | 61.6 | 61.6 |
| GE 6000               | 38.0                             | 52.1     | 54.8     | 57.5     | 58.9     | 59.7     | 60.2     | 61.2     | 62.0     | 62.0     | 62.1     | 62.1    | 62.1    | 62.1    | 62.1    | 62.1 | 62.1 | 62.1 |
| GE 5000               | 40.8                             | 56.5     | 59.2     | 62.1     | 63.7     | 64.5     | 64.9     | 65.9     | 66.7     | 66.7     | 66.8     | 66.8    | 66.8    | 66.8    | 66.8    | 66.8 | 66.8 | 66.8 |
| GE 4500               | 42.2                             | 58.6     | 61.3     | 64.5     | 66.1     | 66.9     | 67.5     | 68.5     | 69.3     | 69.3     | 69.4     | 69.4    | 69.4    | 69.4    | 69.4    | 69.4 | 69.4 | 69.4 |
| GE 4000               | 44.2                             | 61.2     | 63.9     | 67.5     | 69.2     | 70.0     | 70.5     | 71.5     | 72.3     | 72.3     | 72.4     | 72.4    | 72.4    | 72.4    | 72.4    | 72.4 | 72.4 | 72.4 |
| GE 3500               | 45.1                             | 62.8     | 65.5     | 69.1     | 70.8     | 71.5     | 72.2     | 73.2     | 74.0     | 74.0     | 74.1     | 74.1    | 74.1    | 74.1    | 74.1    | 74.1 | 74.1 | 74.1 |
| GE 3000               | 47.9                             | 66.4     | 69.2     | 73.2     | 75.0     | 75.9     | 76.6     | 77.6     | 78.4     | 78.4     | 78.5     | 78.5    | 78.5    | 78.5    | 78.5    | 78.5 | 78.5 | 78.5 |
| GE 2500               | 50.3                             | 69.7     | 72.9     | 76.9     | 78.7     | 79.8     | 80.4     | 81.7     | 82.5     | 82.5     | 82.6     | 82.6    | 82.6    | 82.6    | 82.6    | 82.6 | 82.6 | 82.6 |
| GE 2000               | 52.0                             | 72.1     | 75.3     | 79.3     | 81.1     | 82.2     | 83.1     | 84.5     | 85.3     | 85.3     | 85.4     | 85.4    | 85.4    | 85.4    | 85.4    | 85.4 | 85.4 | 85.4 |
| GE 1800               | 52.2                             | 72.4     | 75.6     | 79.9     | 81.6     | 83.0     | 84.0     | 85.4     | 86.2     | 86.2     | 86.3     | 86.3    | 86.3    | 86.3    | 86.3    | 86.3 | 86.3 | 86.3 |
| GE 1500               | 52.8                             | 73.2     | 76.5     | 80.8     | 82.8     | 84.0     | 85.0     | 86.4     | 87.2     | 87.2     | 87.3     | 87.3    | 87.3    | 87.3    | 87.3    | 87.3 | 87.3 | 87.3 |
| GE 1200               | 53.4                             | 74.5     | 77.7     | 82.0     | 84.3     | 85.6     | 86.6     | 88.2     | 89.0     | 89.0     | 89.1     | 89.1    | 89.1    | 89.1    | 89.1    | 89.1 | 89.1 | 89.1 |
| GE 1000               | 53.7                             | 75.3     | 78.5     | 83.0     | 85.4     | 86.7     | 87.7     | 89.3     | 90.1     | 90.1     | 90.2     | 90.2    | 90.2    | 90.2    | 90.2    | 90.2 | 90.2 | 90.2 |
| GE 900                | 54.2                             | 75.9     | 79.2     | 83.7     | 86.2     | 87.5     | 88.5     | 90.2     | 91.0     | 91.0     | 91.1     | 91.1    | 91.1    | 91.1    | 91.1    | 91.1 | 91.1 | 91.1 |
| GE 800                | 54.3                             | 76.6     | 80.0     | 84.6     | 87.4     | 88.8     | 89.8     | 91.5     | 92.2     | 92.2     | 92.4     | 92.4    | 92.4    | 92.4    | 92.4    | 92.4 | 92.4 | 92.4 |
| GE 700                | 54.7                             | 77.5     | 80.9     | 85.6     | 88.4     | 89.9     | 91.0     | 92.7     | 93.5     | 93.6     | 93.7     | 93.7    | 93.7    | 93.7    | 93.7    | 93.7 | 93.7 | 93.7 |
| GE 600                | 54.8                             | 78.2     | 81.8     | 86.5     | 89.3     | 90.8     | 92.0     | 93.7     | 94.5     | 94.6     | 94.7     | 94.7    | 94.7    | 94.7    | 94.7    | 94.7 | 94.7 | 94.7 |
| GE 500                | 54.8                             | 78.3     | 81.9     | 86.7     | 89.7     | 91.3     | 92.7     | 94.5     | 95.3     | 95.5     | 95.6     | 95.6    | 95.6    | 95.6    | 95.6    | 95.6 | 95.6 | 95.6 |
| GE 400                | 54.8                             | 78.4     | 82.0     | 86.8     | 90.0     | 91.8     | 93.4     | 95.3     | 96.2     | 96.4     | 96.5     | 96.5    | 96.5    | 96.5    | 96.5    | 96.5 | 96.5 | 96.5 |
| GE 300                | 54.8                             | 78.5     | 82.2     | 87.1     | 90.3     | 92.4     | 93.9     | 96.4     | 97.3     | 97.5     | 97.6     | 97.6    | 97.6    | 97.6    | 97.6    | 97.6 | 97.6 | 97.6 |
| GE 200                | 54.8                             | 78.6     | 82.3     | 87.2     | 90.7     | 93.3     | 94.9     | 97.5     | 98.9     | 99.2     | 99.3     | 99.3    | 99.3    | 99.3    | 99.3    | 99.3 | 99.3 | 99.3 |
| GE 100                | 54.8                             | 78.6     | 82.3     | 87.2     | 90.7     | 93.3     | 94.9     | 97.5     | 99.0     | 99.6     | 99.7     | 99.7    | 99.7    | 99.7    | 99.7    | 99.7 | 99.7 | 99.7 |
| GE 0                  | 54.8                             | 78.6     | 82.3     | 87.2     | 90.7     | 93.3     | 94.9     | 97.5     | 99.0     | 99.7     | 99.8     | 99.8    | 99.8    | 99.8    | 99.8    | 99.8 | 99.8 | 99.8 |

TOTAL NUMBER OF OBSERVATIONS: 889

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): 2100-2300

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |
| NO CEIL               | 20.1                             | 28.5     | 30.4     | 33.0     | 34.4     | 35.5     | 36.2     | 38.6     | 39.0     | 39.4     | 39.6     | 39.7     | 40.3    | 40.4    | 40.4    | 40.4    | 40.4  |  |
| GE 20000              | 25.0                             | 36.0     | 38.7     | 41.9     | 43.7     | 44.9     | 45.7     | 48.4     | 49.0     | 49.3     | 49.5     | 49.7     | 50.2    | 50.3    | 50.3    | 50.3    | 50.3  |  |
| GE 18000              | 25.0                             | 36.0     | 38.7     | 41.9     | 43.7     | 44.9     | 45.7     | 48.4     | 49.0     | 49.3     | 49.5     | 49.7     | 50.2    | 50.3    | 50.3    | 50.3    | 50.3  |  |
| GE 16000              | 25.0                             | 36.0     | 38.7     | 41.9     | 43.7     | 44.9     | 45.7     | 48.4     | 49.0     | 49.3     | 49.5     | 49.7     | 50.2    | 50.3    | 50.3    | 50.3    | 50.3  |  |
| GE 14000              | 25.6                             | 36.5     | 39.3     | 42.4     | 44.2     | 45.5     | 46.3     | 49.0     | 49.5     | 49.9     | 50.1     | 50.2     | 50.8    | 50.9    | 50.9    | 50.9    | 50.9  |  |
| GE 12000              | 27.5                             | 38.5     | 41.3     | 44.6     | 46.5     | 47.9     | 48.6     | 51.5     | 52.0     | 52.4     | 52.6     | 52.7     | 53.3    | 53.4    | 53.4    | 53.4    | 53.4  |  |
| GE 10000              | 29.1                             | 40.3     | 43.1     | 46.5     | 48.5     | 49.9     | 50.7     | 53.5     | 54.1     | 54.4     | 54.6     | 54.8     | 55.3    | 55.4    | 55.4    | 55.4    | 55.4  |  |
| GE 9000               | 31.3                             | 43.1     | 45.9     | 49.3     | 51.4     | 52.7     | 53.5     | 56.3     | 57.0     | 57.4     | 57.7     | 57.8     | 58.4    | 58.5    | 58.5    | 58.5    | 58.5  |  |
| GE 8000               | 31.3                             | 43.1     | 45.9     | 49.3     | 51.4     | 52.7     | 53.5     | 56.3     | 57.0     | 57.4     | 57.7     | 57.8     | 58.4    | 58.5    | 58.5    | 58.5    | 58.5  |  |
| GE 7000               | 31.3                             | 43.3     | 46.2     | 49.5     | 51.6     | 52.9     | 53.7     | 56.6     | 57.2     | 57.6     | 57.9     | 58.0     | 58.6    | 58.7    | 58.7    | 58.7    | 58.7  |  |
| GE 6000               | 32.4                             | 44.7     | 47.5     | 51.0     | 53.1     | 54.5     | 55.3     | 58.1     | 58.8     | 59.2     | 59.6     | 59.7     | 60.3    | 60.4    | 60.4    | 60.4    | 60.4  |  |
| GE 5000               | 34.6                             | 47.6     | 50.7     | 54.5     | 56.7     | 58.3     | 59.0     | 62.0     | 62.7     | 63.1     | 63.7     | 63.8     | 64.4    | 64.5    | 64.5    | 64.5    | 64.5  |  |
| GE 4500               | 35.9                             | 49.7     | 52.8     | 56.8     | 58.9     | 60.9     | 61.7     | 64.6     | 65.3     | 65.7     | 66.3     | 66.4     | 67.0    | 67.1    | 67.1    | 67.1    | 67.1  |  |
| GE 4000               | 37.1                             | 51.2     | 54.5     | 58.5     | 60.6     | 62.6     | 63.3     | 66.4     | 67.1     | 67.5     | 68.1     | 68.2     | 68.8    | 68.9    | 68.9    | 68.9    | 68.9  |  |
| GE 3500               | 38.3                             | 53.2     | 56.6     | 60.6     | 62.9     | 64.8     | 65.6     | 68.7     | 69.6     | 70.0     | 70.6     | 70.7     | 71.3    | 71.4    | 71.4    | 71.4    | 71.4  |  |
| GE 3000               | 39.5                             | 54.8     | 58.4     | 62.6     | 64.8     | 66.9     | 67.8     | 70.9     | 71.8     | 72.3     | 72.9     | 73.0     | 73.5    | 73.6    | 73.6    | 73.6    | 73.6  |  |
| GE 2500               | 41.0                             | 56.9     | 60.5     | 64.7     | 67.0     | 69.0     | 69.9     | 73.1     | 74.0     | 74.4     | 75.0     | 75.1     | 75.7    | 75.8    | 75.8    | 75.8    | 75.8  |  |
| GE 2000               | 42.6                             | 59.8     | 63.6     | 67.8     | 70.1     | 72.3     | 73.2     | 76.7     | 77.6     | 78.2     | 78.7     | 78.8     | 79.4    | 79.5    | 79.5    | 79.5    | 79.5  |  |
| GE 1800               | 43.1                             | 60.7     | 64.5     | 68.8     | 71.2     | 73.3     | 74.2     | 77.7     | 78.7     | 79.3     | 79.9     | 80.0     | 80.5    | 80.7    | 80.7    | 80.7    | 80.7  |  |
| GE 1500               | 43.3                             | 61.3     | 65.3     | 69.6     | 71.9     | 74.1     | 75.1     | 78.7     | 79.8     | 80.3     | 80.9     | 81.0     | 81.6    | 81.7    | 81.7    | 81.7    | 81.7  |  |
| GE 1200               | 44.2                             | 63.0     | 67.1     | 71.5     | 73.9     | 76.1     | 77.1     | 80.9     | 81.9     | 82.5     | 83.0     | 83.1     | 83.7    | 83.8    | 83.8    | 83.8    | 83.8  |  |
| GE 1000               | 45.5                             | 69.8     | 69.0     | 73.5     | 76.0     | 78.3     | 79.4     | 83.4     | 84.4     | 85.0     | 85.5     | 85.6     | 86.2    | 86.3    | 86.3    | 86.3    | 86.3  |  |
| GE 900                | 45.6                             | 65.3     | 69.5     | 74.0     | 76.5     | 78.7     | 79.9     | 83.9     | 85.0     | 85.5     | 86.1     | 86.2     | 86.8    | 86.9    | 86.9    | 86.9    | 86.9  |  |
| GE 800                | 45.9                             | 66.0     | 70.1     | 74.7     | 77.4     | 79.6     | 80.8     | 85.1     | 86.1     | 86.7     | 87.2     | 87.3     | 87.9    | 88.0    | 88.0    | 88.0    | 88.0  |  |
| GE 700                | 46.3                             | 66.7     | 71.2     | 75.9     | 78.6     | 81.0     | 82.4     | 86.7     | 87.7     | 88.2     | 88.8     | 88.9     | 89.5    | 89.6    | 89.6    | 89.6    | 89.6  |  |
| GE 600                | 47.1                             | 68.1     | 72.5     | 77.4     | 80.1     | 82.6     | 83.9     | 88.2     | 89.3     | 89.8     | 90.4     | 90.5     | 91.1    | 91.2    | 91.2    | 91.2    | 91.2  |  |
| GE 500                | 47.3                             | 68.4     | 73.0     | 78.4     | 81.1     | 93.6     | 85.0     | 89.3     | 90.4     | 91.0     | 91.5     | 91.6     | 92.2    | 92.3    | 92.3    | 92.3    | 92.3  |  |
| GE 400                | 47.3                             | 68.7     | 73.4     | 79.1     | 82.2     | 95.1     | 86.7     | 91.1     | 92.3     | 93.1     | 93.7     | 93.8     | 94.3    | 94.5    | 94.5    | 94.5    | 94.5  |  |
| GE 300                | 47.3                             | 68.7     | 73.4     | 79.4     | 82.8     | 85.6     | 87.2     | 91.6     | 92.9     | 93.8     | 94.3     | 94.5     | 95.1    | 95.2    | 95.2    | 95.2    | 95.2  |  |
| GE 200                | 47.3                             | 68.8     | 73.5     | 80.0     | 83.4     | 96.3     | 88.1     | 92.8     | 94.2     | 95.4     | 95.9     | 96.0     | 96.7    | 96.8    | 96.8    | 96.8    | 96.8  |  |
| GE 100                | 47.3                             | 68.8     | 73.5     | 80.0     | 83.4     | 96.3     | 88.1     | 93.0     | 94.6     | 96.2     | 96.8     | 96.9     | 97.9    | 98.1    | 98.1    | 98.1    | 98.1  |  |
| GE 0                  | 47.3                             | 68.8     | 73.5     | 80.0     | 83.4     | 96.3     | 88.1     | 93.2     | 94.8     | 96.4     | 97.2     | 97.3     | 98.2    | 98.8    | 98.9    | 98.9    | 100.0 |  |

TOTAL NUMBER OF OBSERVATIONS: 884

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: SEP HOURS(LST): ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>90 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |  |
| No CEIL               | 17.7                             | 23.7     | 24.9     | 26.5     | 27.6     | 28.5     | 29.0     | 30.2     | 30.7     | 31.3     | 31.4     | 31.4    | 31.7    | 32.0    | 32.1    | 32.7  |  |  |
| GE 20000              | 25.4                             | 33.5     | 35.1     | 37.0     | 38.4     | 39.4     | 40.0     | 41.4     | 42.1     | 42.6     | 42.8     | 42.9    | 43.1    | 43.5    | 43.6    | 44.4  |  |  |
| GE 18000              | 25.5                             | 33.6     | 35.1     | 37.1     | 38.5     | 39.5     | 40.1     | 41.5     | 42.2     | 42.7     | 42.8     | 42.9    | 43.2    | 43.6    | 43.7    | 44.5  |  |  |
| GE 16000              | 25.5                             | 33.6     | 35.2     | 37.1     | 38.6     | 39.6     | 40.2     | 41.6     | 42.2     | 42.8     | 42.9     | 43.0    | 43.3    | 43.7    | 43.7    | 44.5  |  |  |
| GE 14000              | 26.1                             | 34.4     | 36.0     | 38.0     | 39.4     | 40.4     | 41.0     | 42.4     | 43.1     | 43.6     | 43.8     | 43.9    | 44.1    | 44.5    | 44.6    | 45.4  |  |  |
| GE 12000              | 27.4                             | 36.0     | 37.6     | 39.7     | 41.2     | 42.2     | 42.8     | 44.3     | 44.9     | 45.5     | 45.6     | 45.7    | 46.0    | 46.4    | 46.5    | 47.3  |  |  |
| GE 10000              | 29.6                             | 38.9     | 40.7     | 42.9     | 44.4     | 45.4     | 46.1     | 47.5     | 48.2     | 48.8     | 49.0     | 49.1    | 49.3    | 49.8    | 49.8    | 50.6  |  |  |
| GE 9000               | 30.6                             | 40.5     | 42.3     | 44.5     | 46.1     | 47.2     | 47.9     | 49.4     | 50.1     | 50.7     | 50.8     | 50.9    | 51.2    | 51.6    | 51.7    | 52.5  |  |  |
| GE 8000               | 31.0                             | 40.7     | 42.5     | 44.7     | 46.3     | 47.4     | 48.1     | 49.6     | 50.3     | 50.9     | 51.1     | 51.2    | 51.5    | 51.9    | 51.9    | 52.8  |  |  |
| GE 7000               | 31.2                             | 41.0     | 42.8     | 45.0     | 46.7     | 47.8     | 48.5     | 50.0     | 50.7     | 51.3     | 51.4     | 51.5    | 51.8    | 52.2    | 52.3    | 53.1  |  |  |
| GE 6000               | 31.9                             | 42.1     | 43.9     | 46.2     | 47.9     | 49.0     | 49.7     | 51.2     | 51.9     | 52.5     | 52.7     | 52.8    | 53.1    | 53.5    | 53.6    | 54.4  |  |  |
| GE 5000               | 34.3                             | 45.5     | 47.5     | 50.0     | 51.8     | 53.0     | 53.8     | 55.4     | 56.1     | 56.7     | 56.9     | 57.0    | 57.3    | 57.8    | 57.9    | 58.7  |  |  |
| GE 4500               | 36.0                             | 47.9     | 50.0     | 52.6     | 54.4     | 55.7     | 56.5     | 58.2     | 58.9     | 59.6     | 59.8     | 60.2    | 60.6    | 60.7    | 61.5    |       |  |  |
| GE 4000               | 38.0                             | 50.3     | 52.4     | 55.1     | 57.1     | 58.4     | 59.3     | 60.9     | 61.7     | 62.3     | 62.5     | 62.6    | 62.9    | 63.4    | 63.5    | 64.3  |  |  |
| GE 3500               | 39.3                             | 52.0     | 54.1     | 56.9     | 58.9     | 60.2     | 61.1     | 62.8     | 63.6     | 64.2     | 64.5     | 64.6    | 64.8    | 65.3    | 65.4    | 66.2  |  |  |
| GE 3000               | 41.4                             | 54.5     | 56.7     | 59.6     | 61.8     | 63.2     | 64.1     | 65.8     | 66.6     | 67.3     | 67.5     | 67.6    | 67.9    | 68.4    | 68.4    | 69.3  |  |  |
| GE 2500               | 44.0                             | 57.8     | 60.2     | 63.1     | 65.5     | 66.8     | 67.8     | 69.5     | 70.4     | 71.0     | 71.2     | 71.3    | 71.7    | 72.1    | 72.2    | 73.0  |  |  |
| GE 2000               | 46.4                             | 61.0     | 63.4     | 66.5     | 68.9     | 70.4     | 71.4     | 73.2     | 74.0     | 74.7     | 74.9     | 75.0    | 75.3    | 75.8    | 75.9    | 76.7  |  |  |
| GE 1800               | 47.4                             | 62.3     | 64.8     | 66.0     | 70.5     | 72.0     | 73.0     | 74.8     | 75.7     | 76.3     | 76.6     | 76.7    | 77.0    | 77.5    | 77.5    | 78.4  |  |  |
| GE 1500               | 48.6                             | 63.8     | 66.5     | 69.8     | 72.4     | 73.8     | 75.0     | 76.8     | 77.7     | 78.3     | 78.5     | 78.6    | 79.0    | 79.4    | 79.5    | 80.3  |  |  |
| GE 1200               | 50.2                             | 66.2     | 68.9     | 72.4     | 75.2     | 76.7     | 77.9     | 79.8     | 80.6     | 81.3     | 81.5     | 81.6    | 82.0    | 82.4    | 82.5    | 83.3  |  |  |
| GE 1000               | 51.1                             | 67.5     | 70.4     | 74.1     | 77.0     | 78.7     | 79.9     | 81.9     | 82.8     | 83.4     | 83.7     | 83.8    | 84.1    | 84.6    | 84.6    | 85.5  |  |  |
| GE 900                | 51.5                             | 68.4     | 71.4     | 75.1     | 78.2     | 79.8     | 81.0     | 83.0     | 83.9     | 84.6     | 84.9     | 85.0    | 85.3    | 85.8    | 85.8    | 86.7  |  |  |
| GE 800                | 51.8                             | 69.1     | 72.1     | 75.9     | 79.1     | 80.8     | 82.0     | 84.2     | 85.1     | 85.8     | 86.0     | 86.1    | 86.5    | 86.9    | 87.0    | 87.8  |  |  |
| GE 700                | 52.2                             | 69.9     | 73.0     | 76.9     | 80.1     | 82.0     | 83.4     | 85.5     | 86.4     | 87.2     | 87.4     | 87.5    | 87.9    | 88.3    | 88.4    | 89.2  |  |  |
| GE 600                | 52.4                             | 70.6     | 73.9     | 77.9     | 81.3     | 83.3     | 84.7     | 87.0     | 87.9     | 88.7     | 88.9     | 89.0    | 89.4    | 89.8    | 89.9    | 90.8  |  |  |
| GE 500                | 52.6                             | 71.1     | 74.4     | 78.9     | 82.3     | 86.4     | 85.8     | 88.2     | 89.2     | 90.0     | 90.2     | 90.3    | 90.7    | 91.1    | 91.2    | 92.0  |  |  |
| GE 400                | 52.8                             | 71.5     | 75.0     | 79.6     | 83.2     | 85.7     | 87.2     | 89.8     | 90.9     | 91.7     | 91.9     | 92.1    | 92.4    | 92.9    | 93.0    | 93.8  |  |  |
| GE 300                | 52.8                             | 71.6     | 75.3     | 80.1     | 84.0     | 86.4     | 88.2     | 91.1     | 92.2     | 93.1     | 93.4     | 93.5    | 93.8    | 94.3    | 94.4    | 95.2  |  |  |
| GE 200                | 52.8                             | 71.7     | 75.4     | 80.5     | 84.5     | 87.1     | 89.1     | 92.3     | 93.6     | 94.7     | 94.9     | 95.0    | 95.5    | 96.0    | 96.1    | 96.9  |  |  |
| GE 100                | 52.8                             | 71.8     | 75.4     | 80.6     | 84.6     | 87.3     | 89.3     | 92.6     | 94.1     | 95.1     | 95.7     | 95.9    | 96.3    | 97.0    | 97.1    | 98.2  |  |  |
| GE 0                  | 52.8                             | 71.8     | 75.4     | 80.6     | 84.6     | 87.3     | 89.3     | 92.7     | 94.2     | 95.5     | 95.9     | 96.1    | 96.6    | 97.6    | 97.9    | 100.0 |  |  |

TOTAL NUMBER OF OBSERVATIONS: 7103

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 0000-0200

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>90 | GE<br>60 | GL<br>44 | GE<br>90 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |  |  |
| NO CEIL               | 17.8                             | 24.7     | 26.6     | 29.3     | 30.4     | 31.1     | 31.8     | 33.3     | 33.9     | 34.3     | 34.4     | 34.6     | 35.0    | 35.5    | 35.6    | 37.4    |  |  |
| GE 20000              | 21.8                             | 30.5     | 33.2     | 36.0     | 37.7     | 38.2     | 39.0     | 40.7     | 41.3     | 41.6     | 41.9     | 42.0     | 42.4    | 42.8    | 43.0    | 44.8    |  |  |
| GE 18000              | 22.1                             | 30.9     | 33.6     | 36.4     | 37.6     | 38.6     | 39.5     | 41.1     | 41.8     | 42.1     | 42.2     | 42.4     | 42.8    | 43.3    | 43.4    | 45.2    |  |  |
| GE 16000              | 22.1                             | 30.9     | 33.6     | 36.4     | 37.6     | 38.6     | 39.5     | 41.1     | 41.8     | 42.1     | 42.2     | 42.4     | 42.8    | 43.3    | 43.4    | 45.2    |  |  |
| GE 14000              | 22.6                             | 31.3     | 34.2     | 37.0     | 38.2     | 39.2     | 40.0     | 41.6     | 42.3     | 42.6     | 42.7     | 43.0     | 43.4    | 43.8    | 43.9    | 45.8    |  |  |
| GE 12000              | 23.0                             | 32.1     | 34.9     | 37.9     | 39.0     | 40.0     | 41.0     | 42.6     | 43.4     | 43.7     | 43.8     | 44.0     | 44.5    | 44.9    | 45.0    | 46.9    |  |  |
| GE 10000              | 24.3                             | 33.9     | 36.8     | 39.8     | 41.7     | 42.0     | 43.1     | 44.7     | 45.4     | 45.8     | 45.9     | 46.1     | 46.5    | 47.0    | 47.1    | 48.9    |  |  |
| GE 9000               | 24.6                             | 34.6     | 37.4     | 40.7     | 42.0     | 43.1     | 44.3     | 45.9     | 46.6     | 47.0     | 47.1     | 47.3     | 47.7    | 48.2    | 48.3    | 50.1    |  |  |
| GE 8000               | 24.5                             | 34.9     | 37.7     | 41.0     | 42.3     | 43.4     | 44.6     | 46.2     | 47.0     | 47.3     | 47.4     | 47.6     | 48.0    | 48.5    | 48.6    | 50.4    |  |  |
| GE 7000               | 24.5                             | 35.1     | 38.0     | 41.2     | 42.6     | 43.7     | 44.9     | 46.5     | 47.3     | 47.6     | 47.7     | 47.9     | 48.4    | 48.8    | 48.9    | 50.8    |  |  |
| GE 6000               | 25.2                             | 36.3     | 39.3     | 42.6     | 44.1     | 45.2     | 46.4     | 48.0     | 48.8     | 49.2     | 49.3     | 49.6     | 50.0    | 50.4    | 50.5    | 52.5    |  |  |
| GE 5000               | 26.5                             | 38.8     | 41.8     | 45.1     | 46.6     | 47.7     | 49.0     | 50.7     | 51.5     | 52.0     | 52.1     | 52.3     | 52.7    | 53.1    | 53.3    | 55.2    |  |  |
| GE 4500               | 27.1                             | 39.9     | 42.8     | 46.4     | 47.9     | 49.1     | 50.4     | 52.1     | 53.0     | 53.5     | 53.6     | 53.8     | 54.2    | 54.7    | 54.8    | 56.7    |  |  |
| GE 4000               | 28.2                             | 41.3     | 44.3     | 47.8     | 49.3     | 50.5     | 51.8     | 53.5     | 54.4     | 55.9     | 55.0     | 55.2     | 55.6    | 56.1    | 56.2    | 58.1    |  |  |
| GE 3500               | 29.0                             | 42.4     | 45.4     | 49.0     | 50.9     | 51.7     | 53.0     | 54.7     | 55.6     | 56.1     | 56.2     | 56.4     | 56.8    | 57.3    | 57.4    | 59.3    |  |  |
| GE 3000               | 30.7                             | 44.8     | 48.2     | 52.1     | 53.6     | 54.9     | 56.2     | 57.8     | 58.8     | 59.2     | 59.3     | 59.5     | 60.0    | 60.4    | 60.5    | 62.5    |  |  |
| GE 2500               | 32.3                             | 47.2     | 50.8     | 54.7     | 56.3     | 57.6     | 58.9     | 60.5     | 61.5     | 61.9     | 62.0     | 62.3     | 62.7    | 63.1    | 63.2    | 65.2    |  |  |
| GE 2000               | 37.6                             | 50.0     | 53.8     | 58.1     | 60.4     | 62.0     | 63.3     | 65.2     | 66.2     | 66.6     | 66.9     | 67.0     | 67.6    | 68.1    | 68.2    | 70.2    |  |  |
| GE 1800               | 38.4                             | 51.1     | 55.2     | 59.5     | 62.0     | 64.0     | 65.3     | 67.6     | 68.5     | 69.0     | 69.2     | 69.4     | 70.0    | 70.6    | 70.7    | 72.7    |  |  |
| GE 1500               | 35.0                             | 52.6     | 56.7     | 61.3     | 64.0     | 65.9     | 67.6     | 70.5     | 71.5     | 71.9     | 72.1     | 72.3     | 72.9    | 73.5    | 73.6    | 75.7    |  |  |
| GE 1200               | 36.9                             | 55.4     | 59.8     | 64.4     | 67.4     | 69.3     | 71.1     | 74.2     | 75.3     | 75.7     | 75.9     | 76.1     | 76.7    | 77.3    | 77.4    | 79.6    |  |  |
| GF 1000               | 38.1                             | 57.3     | 61.7     | 66.6     | 69.7     | 71.8     | 73.9     | 76.9     | 78.1     | 78.5     | 78.7     | 79.0     | 79.5    | 80.2    | 80.3    | 82.4    |  |  |
| GE 900                | 38.4                             | 58.0     | 62.5     | 67.4     | 70.5     | 72.6     | 74.6     | 77.8     | 79.0     | 79.4     | 79.6     | 79.8     | 80.4    | 81.0    | 81.1    | 83.3    |  |  |
| GE 800                | 38.8                             | 59.0     | 63.4     | 68.5     | 71.9     | 74.1     | 76.1     | 79.3     | 80.6     | 81.0     | 81.2     | 81.5     | 82.0    | 82.6    | 82.8    | 84.9    |  |  |
| GE 700                | 39.0                             | 59.9     | 64.4     | 69.8     | 73.4     | 75.6     | 77.7     | 80.8     | 82.1     | 82.5     | 82.8     | 83.0     | 83.5    | 84.2    | 84.3    | 86.4    |  |  |
| GE 600                | 39.3                             | 60.2     | 65.1     | 70.5     | 74.2     | 76.4     | 78.6     | 81.8     | 83.2     | 83.7     | 84.1     | 84.3     | 84.9    | 85.6    | 85.7    | 87.9    |  |  |
| GE 500                | 39.3                             | 60.6     | 65.6     | 71.3     | 75.2     | 77.4     | 79.8     | 83.0     | 84.4     | 84.9     | 85.2     | 85.5     | 86.1    | 86.8    | 86.9    | 89.0    |  |  |
| GE 400                | 39.4                             | 61.3     | 66.5     | 72.2     | 76.5     | 78.9     | 81.5     | 84.7     | 86.1     | 86.8     | 87.1     | 87.3     | 88.0    | 88.6    | 89.7    | 90.9    |  |  |
| GE 300                | 39.4                             | 61.5     | 66.9     | 73.0     | 77.2     | 79.8     | 82.5     | 86.0     | 87.5     | 88.2     | 88.5     | 88.7     | 89.4    | 90.0    | 90.1    | 92.3    |  |  |
| GE 200                | 39.4                             | 61.6     | 67.0     | 73.1     | 77.9     | 80.5     | 83.3     | 87.5     | 89.2     | 90.0     | 90.3     | 90.6     | 91.2    | 92.1    | 92.2    | 94.4    |  |  |
| GE 100                | 39.4                             | 61.6     | 67.0     | 73.1     | 78.2     | 81.2     | 84.3     | 88.7     | 90.6     | 91.6     | 92.1     | 92.3     | 93.0    | 93.9    | 94.0    | 96.9    |  |  |
| GE 0                  | 39.4                             | 61.6     | 67.1     | 73.2     | 78.3     | 81.3     | 84.4     | 88.8     | 90.7     | 91.8     | 92.2     | 92.6     | 93.5    | 95.2    | 95.6    | 100.0   |  |  |

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
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PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VFRSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86

MONTH: OCT HOURS(LST): 0300-0500

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GL<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |  |  |
| NO CEIL               | 17.1                             | 21.6     | 23.5     | 24.7     | 26.3     | 27.2     | 28.2     | 29.7     | 30.2     | 31.3     | 31.6     | 31.9     | 32.4    | 33.2    | 33.2    | 35.6    |  |  |
| GE 20000              | 19.6                             | 26.0     | 28.1     | 29.5     | 31.4     | 32.4     | 33.5     | 35.3     | 36.0     | 37.1     | 37.4     | 37.6     | 38.1    | 38.9    | 38.9    | 41.5    |  |  |
| GE 18000              | 19.7                             | 26.1     | 28.2     | 29.6     | 31.5     | 32.5     | 33.6     | 35.4     | 36.1     | 37.2     | 37.5     | 37.7     | 38.2    | 39.0    | 39.0    | 41.6    |  |  |
| GE 16000              | 19.8                             | 26.2     | 28.3     | 29.7     | 31.6     | 32.6     | 33.7     | 35.5     | 36.2     | 37.3     | 37.6     | 37.8     | 38.4    | 39.1    | 39.1    | 41.7    |  |  |
| GE 14000              | 20.3                             | 27.1     | 29.1     | 30.6     | 32.5     | 33.5     | 34.6     | 36.4     | 37.1     | 38.1     | 38.5     | 38.7     | 39.2    | 40.0    | 40.0    | 42.6    |  |  |
| GE 12000              | 20.8                             | 27.6     | 29.7     | 31.1     | 33.0     | 34.0     | 35.1     | 36.9     | 37.6     | 38.7     | 39.0     | 39.2     | 39.8    | 40.5    | 40.5    | 43.1    |  |  |
| GE 10000              | 21.3                             | 28.6     | 30.7     | 32.2     | 34.3     | 35.4     | 36.5     | 38.4     | 39.0     | 40.1     | 40.4     | 40.6     | 41.2    | 41.9    | 41.9    | 44.5    |  |  |
| GE 9000               | 22.0                             | 29.6     | 31.6     | 33.2     | 35.3     | 36.4     | 37.5     | 39.3     | 40.0     | 41.1     | 41.4     | 41.6     | 42.1    | 42.9    | 42.9    | 45.5    |  |  |
| GE 8000               | 22.2                             | 29.9     | 32.0     | 33.5     | 35.6     | 36.7     | 37.8     | 39.7     | 40.3     | 41.4     | 41.7     | 41.9     | 42.5    | 43.2    | 43.2    | 45.8    |  |  |
| GE 7000               | 22.3                             | 30.3     | 32.4     | 34.0     | 36.3     | 37.4     | 38.5     | 40.3     | 41.0     | 42.0     | 42.4     | 42.6     | 43.1    | 43.9    | 43.9    | 46.5    |  |  |
| GE 6000               | 27.8                             | 30.8     | 32.8     | 34.5     | 36.7     | 37.8     | 38.9     | 40.8     | 41.5     | 42.6     | 42.9     | 43.1     | 43.7    | 44.4    | 44.4    | 47.1    |  |  |
| GE 5000               | 25.2                             | 33.8     | 36.2     | 38.0     | 40.4     | 41.5     | 42.9     | 44.9     | 45.5     | 46.6     | 46.9     | 47.1     | 47.7    | 48.4    | 48.5    | 51.4    |  |  |
| GE 4500               | 26.5                             | 35.4     | 37.9     | 40.3     | 42.7     | 43.9     | 45.4     | 47.3     | 48.0     | 49.1     | 49.4     | 49.6     | 50.2    | 50.9    | 51.0    | 53.8    |  |  |
| GE 4000               | 27.4                             | 36.6     | 39.2     | 41.7     | 44.3     | 45.5     | 47.0     | 49.0     | 49.6     | 50.7     | 51.0     | 51.2     | 51.8    | 52.5    | 52.7    | 55.5    |  |  |
| GE 3500               | 27.5                             | 37.1     | 39.7     | 42.1     | 45.0     | 46.2     | 47.7     | 49.6     | 50.3     | 51.4     | 51.7     | 51.9     | 52.4    | 53.2    | 53.3    | 56.1    |  |  |
| GE 3000               | 28.8                             | 38.9     | 41.7     | 44.2     | 47.0     | 48.2     | 49.7     | 51.7     | 52.3     | 53.4     | 53.7     | 54.0     | 54.5    | 55.3    | 55.4    | 58.2    |  |  |
| GE 2500               | 30.6                             | 41.6     | 44.7     | 47.9     | 50.9     | 52.1     | 53.6     | 55.6     | 56.2     | 57.3     | 57.6     | 57.9     | 58.4    | 59.2    | 59.3    | 62.1    |  |  |
| GE 2000               | 32.3                             | 44.3     | 47.8     | 51.1     | 54.6     | 56.0     | 57.5     | 59.9     | 60.6     | 61.8     | 62.1     | 62.3     | 62.8    | 63.7    | 63.8    | 66.6    |  |  |
| GE 1800               | 32.7                             | 45.2     | 48.9     | 52.4     | 56.2     | 57.9     | 59.8     | 62.1     | 62.7     | 63.9     | 64.2     | 64.5     | 65.1    | 66.0    | 66.1    | 68.9    |  |  |
| GE 1500               | 33.4                             | 47.2     | 50.9     | 54.7     | 58.6     | 60.3     | 61.9     | 64.7     | 65.3     | 66.5     | 66.8     | 67.1     | 67.7    | 68.6    | 69.7    | 71.5    |  |  |
| GE 1200               | 34.7                             | 49.9     | 53.7     | 58.2     | 62.3     | 64.0     | 65.5     | 68.6     | 69.2     | 70.4     | 70.7     | 71.0     | 71.6    | 72.5    | 72.6    | 75.4    |  |  |
| GE 1000               | 35.4                             | 51.7     | 55.9     | 60.6     | 65.1     | 67.1     | 68.6     | 71.7     | 72.5     | 73.8     | 74.1     | 74.3     | 75.1    | 75.9    | 76.1    | 78.9    |  |  |
| GE 900                | 35.6                             | 52.2     | 56.4     | 61.2     | 65.0     | 67.7     | 69.2     | 72.7     | 73.5     | 74.8     | 75.1     | 75.3     | 76.1    | 76.9    | 77.0    | 79.8    |  |  |
| GE 800                | 36.2                             | 53.3     | 57.5     | 62.4     | 67.2     | 69.1     | 70.6     | 74.2     | 75.0     | 76.3     | 76.6     | 76.8     | 77.6    | 78.4    | 78.5    | 81.4    |  |  |
| GE 700                | 36.4                             | 54.5     | 58.8     | 64.1     | 68.9     | 70.9     | 72.6     | 75.9     | 76.7     | 78.0     | 78.3     | 78.5     | 79.3    | 80.2    | 80.3    | 83.1    |  |  |
| GE 600                | 36.7                             | 55.8     | 60.1     | 65.4     | 70.3     | 72.6     | 74.3     | 78.0     | 78.8     | 80.1     | 80.4     | 80.6     | 81.5    | 82.3    | 82.4    | 85.3    |  |  |
| GE 500                | 56.7                             | 56.2     | 60.8     | 66.3     | 71.2     | 73.6     | 75.3     | 79.0     | 79.7     | 81.0     | 81.4     | 81.6     | 82.4    | 83.4    | 83.5    | 86.3    |  |  |
| GE 400                | 56.7                             | 56.8     | 61.6     | 67.3     | 72.3     | 75.2     | 76.9     | 80.7     | 81.6     | 83.0     | 83.5     | 83.8     | 84.4    | 85.4    | 85.5    | 88.3    |  |  |
| GE 300                | 36.8                             | 57.1     | 62.3     | 68.1     | 73.5     | 76.7     | 78.4     | 82.4     | 83.4     | 84.8     | 85.2     | 85.4     | 86.2    | 87.2    | 87.3    | 90.1    |  |  |
| GE 200                | 36.8                             | 57.4     | 62.8     | 69.4     | 74.8     | 78.2     | 80.3     | 84.7     | 85.8     | 87.2     | 87.5     | 87.8     | 88.7    | 89.7    | 89.8    | 92.6    |  |  |
| GE 100                | 36.8                             | 57.4     | 62.8     | 69.4     | 75.2     | 78.7     | 80.7     | 85.8     | 87.4     | 88.8     | 89.4     | 89.6     | 90.7    | 92.0    | 92.2    | 100.0   |  |  |

TOTAL NUMBER OF OBSERVATIONS: 923

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 0600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |  |  |
| NO CEIL               | 12.4                             | 15.7     | 16.3     | 17.2     | 17.6     | 17.8     | 18.3     | 18.8     | 19.2     | 19.9     | 20.1     | 20.4    | 20.9    | 22.1    | 22.4    | 24.3  |  |  |  |
| GE 20000              | 17.4                             | 21.7     | 22.9     | 24.4     | 25.3     | 25.5     | 26.1     | 27.2     | 27.8     | 28.8     | 29.1     | 29.5    | 30.3    | 31.8    | 32.1    | 34.1  |  |  |  |
| GE 18000              | 17.7                             | 22.1     | 23.2     | 24.8     | 25.6     | 25.8     | 26.4     | 27.6     | 28.1     | 29.1     | 29.4     | 29.8    | 30.6    | 32.1    | 32.4    | 34.4  |  |  |  |
| GE 16000              | 17.8                             | 22.2     | 23.4     | 24.9     | 25.7     | 25.9     | 26.5     | 27.7     | 28.2     | 29.2     | 29.5     | 29.9    | 30.7    | 32.2    | 32.5    | 34.5  |  |  |  |
| GE 14000              | 18.1                             | 22.6     | 23.8     | 25.3     | 26.4     | 26.6     | 27.1     | 28.3     | 28.9     | 29.8     | 30.2     | 30.6    | 31.4    | 32.9    | 33.2    | 35.1  |  |  |  |
| GE 12000              | 18.8                             | 23.8     | 25.1     | 26.7     | 27.9     | 28.1     | 28.6     | 29.8     | 30.4     | 31.4     | 31.7     | 32.2    | 33.0    | 34.5    | 34.9    | 36.9  |  |  |  |
| GE 10000              | 20.6                             | 25.9     | 27.4     | 29.0     | 30.5     | 30.8     | 31.4     | 32.6     | 33.2     | 34.2     | 34.6     | 35.1    | 35.9    | 37.8    | 37.8    | 39.8  |  |  |  |
| GE 9000               | 21.8                             | 27.7     | 29.2     | 30.8     | 32.3     | 32.6     | 33.2     | 34.8     | 35.4     | 36.3     | 36.8     | 37.3    | 38.1    | 39.6    | 40.0    | 41.9  |  |  |  |
| GE 8000               | 21.9                             | 27.9     | 29.4     | 31.0     | 32.4     | 32.9     | 33.4     | 35.0     | 35.6     | 36.5     | 37.0     | 37.5    | 38.4    | 39.9    | 40.3    | 42.3  |  |  |  |
| GE 7000               | 22.2                             | 28.2     | 29.7     | 31.4     | 32.9     | 33.2     | 33.8     | 35.8     | 36.3     | 37.3     | 37.7     | 38.3    | 39.1    | 40.6    | 41.1    | 43.0  |  |  |  |
| GE 6000               | 22.6                             | 28.6     | 30.3     | 32.2     | 33.7     | 34.1     | 34.7     | 36.6     | 37.2     | 38.2     | 38.6     | 39.1    | 40.0    | 41.5    | 41.9    | 43.9  |  |  |  |
| GE 5000               | 24.9                             | 32.1     | 33.8     | 36.1     | 37.8     | 38.3     | 39.0     | 41.1     | 41.7     | 42.7     | 43.1     | 43.7    | 44.5    | 46.1    | 46.5    | 48.5  |  |  |  |
| GE 4500               | 25.8                             | 33.2     | 34.9     | 37.3     | 39.2     | 39.7     | 40.4     | 42.5     | 43.1     | 44.1     | 44.5     | 45.1    | 45.9    | 47.6    | 48.0    | 50.1  |  |  |  |
| GE 4000               | 26.7                             | 34.1     | 35.9     | 38.3     | 40.5     | 41.0     | 41.7     | 43.8     | 44.4     | 45.4     | 45.8     | 46.5    | 47.5    | 49.1    | 49.6    | 51.7  |  |  |  |
| GE 3500               | 27.8                             | 35.0     | 37.2     | 39.6     | 41.9     | 42.4     | 43.1     | 45.3     | 45.9     | 46.9     | 47.4     | 48.0    | 49.0    | 50.6    | 51.1    | 53.2  |  |  |  |
| GE 3000               | 29.4                             | 37.4     | 39.4     | 41.8     | 44.5     | 45.0     | 45.7     | 48.0     | 48.6     | 49.6     | 50.1     | 50.7    | 51.7    | 53.3    | 53.8    | 55.9  |  |  |  |
| GE 2500               | 30.8                             | 39.4     | 41.3     | 44.0     | 47.2     | 47.8     | 48.8     | 51.1     | 51.8     | 52.8     | 53.2     | 53.8    | 54.8    | 56.5    | 57.1    | 59.1  |  |  |  |
| GE 2000               | 32.9                             | 42.5     | 44.9     | 47.8     | 51.2     | 52.0     | 53.2     | 56.1     | 56.8     | 58.1     | 58.5     | 59.1    | 60.1    | 61.8    | 62.9    | 64.9  |  |  |  |
| GE 1800               | 33.6                             | 43.6     | 46.1     | 49.4     | 52.9     | 53.6     | 54.8     | 57.8     | 58.5     | 59.8     | 60.3     | 61.0    | 61.9    | 63.7    | 64.2    | 66.3  |  |  |  |
| GE 1500               | 34.8                             | 45.3     | 48.0     | 51.7     | 55.1     | 55.9     | 57.1     | 60.2     | 60.9     | 62.3     | 62.8     | 63.5    | 64.4    | 66.2    | 66.7    | 68.8  |  |  |  |
| GE 1200               | 35.8                             | 47.9     | 50.9     | 54.8     | 58.5     | 59.2     | 60.4     | 63.7     | 64.4     | 65.8     | 66.6     | 67.2    | 68.3    | 70.2    | 70.7    | 72.9  |  |  |  |
| GE 1000               | 36.2                             | 49.0     | 52.0     | 55.9     | 59.9     | 60.8     | 62.1     | 65.3     | 66.1     | 67.5     | 68.2     | 68.9    | 69.9    | 71.0    | 72.3    | 74.5  |  |  |  |
| GE 900                | 36.4                             | 49.7     | 52.9     | 56.9     | 61.1     | 61.9     | 63.2     | 66.8     | 67.7     | 69.1     | 69.8     | 70.5    | 71.6    | 73.4    | 73.9    | 76.1  |  |  |  |
| GE 800                | 36.6                             | 50.5     | 53.8     | 58.2     | 62.6     | 63.6     | 65.0     | 68.5     | 69.4     | 70.8     | 71.6     | 72.2    | 73.3    | 75.1    | 75.7    | 77.8  |  |  |  |
| GE 700                | 37.1                             | 51.7     | 55.4     | 60.3     | 65.2     | 66.3     | 67.9     | 71.5     | 72.3     | 73.7     | 74.5     | 75.1    | 76.2    | 78.1    | 78.6    | 80.8  |  |  |  |
| GE 600                | 37.5                             | 52.8     | 56.6     | 61.9     | 67.2     | 68.5     | 70.4     | 74.4     | 75.2     | 76.6     | 77.4     | 78.1    | 79.1    | 81.0    | 81.5    | 83.7  |  |  |  |
| GE 500                | 37.5                             | 53.3     | 57.2     | 62.7     | 68.1     | 69.5     | 71.6     | 75.7     | 76.5     | 78.1     | 78.8     | 79.5    | 80.5    | 82.4    | 82.9    | 85.2  |  |  |  |
| GE 400                | 37.6                             | 53.8     | 57.8     | 63.4     | 68.9     | 70.7     | 72.9     | 77.3     | 78.2     | 79.9     | 80.6     | 81.3    | 82.4    | 84.2    | 84.8    | 87.0  |  |  |  |
| GE 300                | 37.6                             | 53.9     | 58.3     | 68.1     | 69.9     | 72.2     | 74.6     | 79.2     | 80.2     | 81.9     | 82.7     | 83.4    | 84.5    | 86.4    | 86.9    | 89.2  |  |  |  |
| GE 200                | 37.6                             | 54.1     | 58.4     | 64.4     | 70.9     | 73.5     | 76.3     | 81.1     | 82.2     | 83.9     | 84.6     | 85.3    | 86.5    | 88.5    | 89.1    | 91.6  |  |  |  |
| GE 100                | 37.6                             | 54.1     | 58.4     | 64.4     | 71.7     | 73.6     | 76.5     | 81.5     | 82.9     | 84.8     | 85.6     | 86.2    | 87.7    | 89.8    | 90.5    | 93.9  |  |  |  |
| GE 01                 | 37.6                             | 54.1     | 58.4     | 64.4     | 71.0     | 73.6     | 76.5     | 81.5     | 82.8     | 85.0     | 86.8     | 86.5    | 88.1    | 90.7    | 91.5    | 100.0 |  |  |  |

TOTAL NUMBER OF OBSERVATIONS: 925

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GL<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |  |  |
| NO CEIL               | 13.9                             | 18.2     | 19.1     | 20.7     | 21.6     | 22.1     | 22.6     | 23.1     | 23.3     | 23.7     | 27.8     | 28.8     | 23.8    | 24.1    | 24.1    | 24.2    |  |  |
| GE 20000              | 23.6                             | 30.6     | 31.7     | 33.8     | 34.9     | 35.4     | 36.3     | 36.9     | 37.2     | 37.6     | 37.7     | 37.7     | 37.7    | 37.9    | 37.9    | 38.0    |  |  |
| GE 18000              | 23.7                             | 30.7     | 31.9     | 33.9     | 35.0     | 35.5     | 36.4     | 37.1     | 37.3     | 37.7     | 37.8     | 37.8     | 37.8    | 38.0    | 38.0    | 38.1    |  |  |
| GE 16000              | 23.9                             | 30.9     | 32.1     | 34.1     | 35.2     | 35.8     | 36.6     | 37.3     | 37.5     | 37.9     | 38.0     | 38.0     | 38.0    | 38.2    | 38.2    | 38.4    |  |  |
| GE 14000              | 24.0                             | 32.0     | 33.3     | 35.3     | 36.6     | 37.2     | 38.0     | 38.7     | 38.9     | 39.3     | 39.4     | 39.4     | 39.4    | 39.7    | 39.7    | 39.8    |  |  |
| GE 12000              | 26.1                             | 33.6     | 35.1     | 37.2     | 38.5     | 39.0     | 39.9     | 40.5     | 40.7     | 41.2     | 41.3     | 41.3     | 41.5    | 41.5    | 41.5    | 41.6    |  |  |
| GE 10000              | 27.5                             | 35.5     | 36.9     | 39.1     | 40.4     | 41.0     | 41.8     | 42.5     | 42.7     | 43.1     | 43.7     | 43.2     | 43.4    | 43.4    | 43.6    |         |  |  |
| GE 9000               | 28.7                             | 37.2     | 38.6     | 40.8     | 42.4     | 43.1     | 44.0     | 44.6     | 44.9     | 45.3     | 45.4     | 45.4     | 45.4    | 45.6    | 45.6    | 45.7    |  |  |
| GE 8000               | 29.7                             | 37.7     | 39.1     | 41.4     | 42.4     | 43.7     | 44.5     | 45.2     | 45.4     | 45.8     | 45.9     | 45.9     | 45.9    | 46.2    | 46.2    | 46.3    |  |  |
| GE 7000               | 29.9                             | 37.9     | 39.3     | 41.6     | 43.1     | 43.9     | 44.7     | 45.4     | 45.6     | 46.0     | 46.7     | 46.2     | 46.2    | 46.4    | 46.4    | 46.5    |  |  |
| GE 6000               | 33.2                             | 39.1     | 40.5     | 42.8     | 44.3     | 45.1     | 45.9     | 46.6     | 46.8     | 47.2     | 47.3     | 47.3     | 47.3    | 47.6    | 47.6    | 47.7    |  |  |
| GE 5000               | 31.6                             | 41.2     | 42.6     | 45.0     | 46.5     | 47.2     | 48.1     | 48.9     | 49.1     | 49.5     | 49.6     | 49.6     | 49.6    | 49.8    | 49.8    | 49.9    |  |  |
| GE 4500               | 32.3                             | 41.8     | 43.2     | 45.8     | 47.6     | 48.3     | 49.2     | 49.9     | 50.2     | 50.6     | 50.7     | 50.7     | 50.7    | 50.9    | 50.9    | 51.0    |  |  |
| GE 4000               | 33.7                             | 40.1     | 45.6     | 48.5     | 50.4     | 51.2     | 52.2     | 53.2     | 53.4     | 53.8     | 54.0     | 54.0     | 54.0    | 54.2    | 54.2    | 54.3    |  |  |
| GE 3500               | 34.2                             | 44.9     | 46.5     | 49.6     | 51.6     | 52.6     | 53.4     | 54.4     | 54.6     | 55.0     | 55.1     | 55.1     | 55.1    | 55.4    | 55.4    | 55.5    |  |  |
| GE 3000               | 35.6                             | 46.5     | 48.1     | 51.5     | 53.4     | 54.3     | 55.3     | 56.3     | 56.6     | 57.0     | 57.1     | 57.1     | 57.1    | 57.3    | 57.3    | 57.4    |  |  |
| GE 2500               | 36.9                             | 48.4     | 50.3     | 53.8     | 56.0     | 56.9     | 58.0     | 59.3     | 59.6     | 60.0     | 60.1     | 60.1     | 60.1    | 60.3    | 60.3    | 60.5    |  |  |
| GE 2000               | 39.8                             | 52.0     | 54.1     | 57.9     | 60.5     | 61.3     | 62.4     | 63.7     | 64.0     | 64.5     | 64.6     | 64.6     | 64.6    | 64.8    | 64.8    | 64.9    |  |  |
| GE 1800               | 41.3                             | 53.8     | 56.0     | 60.0     | 62.6     | 63.6     | 64.7     | 66.0     | 66.3     | 66.8     | 67.0     | 67.0     | 67.0    | 67.2    | 67.2    | 67.4    |  |  |
| GE 1500               | 43.7                             | 57.2     | 59.5     | 63.7     | 66.6     | 67.8     | 68.9     | 70.3     | 70.7     | 71.3     | 71.4     | 71.4     | 71.4    | 71.6    | 71.6    | 71.8    |  |  |
| GE 1200               | 46.0                             | 60.5     | 62.9     | 67.5     | 71.0     | 72.3     | 73.5     | 74.9     | 75.3     | 75.9     | 76.1     | 76.1     | 76.1    | 76.3    | 76.3    | 76.5    |  |  |
| GE 1000               | 46.5                             | 61.4     | 64.0     | 68.6     | 72.7     | 74.0     | 75.1     | 76.9     | 77.4     | 78.0     | 78.1     | 78.1     | 78.1    | 78.3    | 78.3    | 78.5    |  |  |
| GE 900                | 47.7                             | 63.1     | 66.1     | 70.9     | 75.7     | 76.5     | 77.6     | 79.6     | 80.1     | 80.7     | 80.8     | 80.8     | 80.8    | 81.0    | 81.0    | 81.3    |  |  |
| GE 800                | 49.2                             | 64.6     | 67.7     | 72.7     | 77.5     | 79.0     | 80.2     | 82.2     | 82.7     | 83.3     | 83.4     | 83.4     | 83.4    | 83.6    | 83.6    | 83.9    |  |  |
| GE 700                | 48.3                             | 65.1     | 68.6     | 73.6     | 78.5     | 80.2     | 81.4     | 83.5     | 84.0     | 84.6     | 84.7     | 84.7     | 84.7    | 84.9    | 84.9    | 85.2    |  |  |
| GE 600                | 49.8                             | 66.8     | 70.3     | 75.7     | 81.0     | 82.8     | 84.0     | 86.3     | 86.8     | 87.0     | 87.5     | 87.5     | 87.5    | 87.8    | 87.8    | 88.0    |  |  |
| GE 500                | 49.0                             | 67.5     | 71.1     | 76.7     | 82.1     | 84.0     | 85.2     | 87.5     | 88.0     | 88.6     | 88.7     | 88.7     | 88.7    | 88.9    | 88.9    | 89.2    |  |  |
| GE 400                | 49.1                             | 67.9     | 71.5     | 77.2     | 83.0     | 84.8     | 86.2     | 88.7     | 89.3     | 90.1     | 90.2     | 90.2     | 90.2    | 90.5    | 90.5    | 90.7    |  |  |
| GE 300                | 49.1                             | 68.0     | 71.9     | 77.6     | 88.1     | 90.2     | 91.8     | 90.5     | 91.2     | 92.4     | 92.5     | 92.5     | 92.5    | 92.7    | 92.7    | 93.0    |  |  |
| GE 200                | 49.1                             | 68.0     | 71.9     | 78.0     | 88.5     | 90.8     | 91.6     | 92.4     | 93.7     | 94.8     | 95.9     | 95.9     | 95.9    | 96.3    | 96.3    | 96.5    |  |  |
| GE 100                | 49.1                             | 68.0     | 71.9     | 78.0     | 88.5     | 97.0     | 89.1     | 92.1     | 93.1     | 95.0     | 95.1     | 95.4     | 95.8    | 96.7    | 96.9    | 97.4    |  |  |
| GE                    | 49.1                             | 68.0     | 71.9     | 78.0     | 88.5     | 97.0     | 89.1     | 92.1     | 93.1     | 95.0     | 95.1     | 95.4     | 95.8    | 97.2    | 97.4    | 100.0   |  |  |

TOTAL NUMBER OF OBSERVATIONS: 923

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 1200-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CETL               | 12.6                             | 17.4     | 18.0     | 18.8     | 20.0     | 20.3     | 20.7     | 20.7     | 20.9     | 20.9     | 20.9     | 20.9     | 20.9    | 20.9    | 20.9    | 20.9    |
| GE 20000              | 22.5                             | 29.3     | 30.1     | 31.1     | 32.4     | 32.9     | 33.2     | 33.2     | 33.4     | 33.4     | 33.4     | 33.4     | 33.4    | 33.4    | 33.4    | 33.4    |
| GE 18000              | 22.5                             | 29.3     | 30.1     | 31.1     | 32.4     | 32.9     | 33.2     | 33.2     | 33.4     | 33.4     | 33.4     | 33.4     | 33.4    | 33.4    | 33.4    | 33.4    |
| GE 16000              | 22.6                             | 29.4     | 30.3     | 31.2     | 32.5     | 33.0     | 33.3     | 33.3     | 33.5     | 33.5     | 33.5     | 33.5     | 33.5    | 33.5    | 33.5    | 33.5    |
| GE 14000              | 24.4                             | 31.3     | 32.2     | 33.3     | 34.6     | 35.0     | 35.4     | 35.4     | 35.6     | 35.6     | 35.6     | 35.6     | 35.6    | 35.6    | 35.6    | 35.6    |
| GE 12000              | 25.8                             | 33.2     | 34.2     | 35.3     | 36.6     | 37.0     | 37.3     | 37.3     | 37.5     | 37.5     | 37.5     | 37.5     | 37.5    | 37.5    | 37.5    | 37.5    |
| GE 10000              | 28.5                             | 36.3     | 37.3     | 38.5     | 39.9     | 40.4     | 40.7     | 40.8     | 41.0     | 41.0     | 41.0     | 41.0     | 41.0    | 41.0    | 41.0    | 41.0    |
| GE 9000               | 29.6                             | 37.6     | 38.6     | 39.8     | 41.2     | 41.7     | 42.1     | 42.2     | 42.4     | 42.4     | 42.4     | 42.4     | 42.4    | 42.4    | 42.4    | 42.4    |
| GE 8000               | 29.8                             | 37.9     | 38.8     | 40.3     | 41.7     | 42.1     | 42.5     | 42.7     | 42.9     | 42.9     | 42.9     | 42.9     | 42.9    | 42.9    | 42.9    | 42.9    |
| GE 7000               | 30.0                             | 38.1     | 39.2     | 40.7     | 42.1     | 42.5     | 43.0     | 43.1     | 43.3     | 43.3     | 43.3     | 43.3     | 43.3    | 43.3    | 43.3    | 43.3    |
| GE 6000               | 31.2                             | 39.6     | 40.7     | 42.2     | 43.6     | 44.1     | 44.5     | 44.6     | 44.8     | 44.8     | 44.8     | 44.8     | 44.8    | 44.8    | 44.8    | 44.8    |
| GE 5000               | 33.2                             | 42.3     | 43.4     | 45.0     | 46.6     | 47.0     | 47.6     | 47.8     | 48.0     | 48.0     | 48.0     | 48.0     | 48.0    | 48.0    | 48.0    | 48.0    |
| GE 4500               | 34.3                             | 43.6     | 44.8     | 46.8     | 48.3     | 48.7     | 49.3     | 49.5     | 49.7     | 49.7     | 49.7     | 49.7     | 49.7    | 49.7    | 49.7    | 49.7    |
| GE 4000               | 37.4                             | 47.6     | 48.9     | 50.9     | 52.4     | 52.9     | 53.4     | 53.6     | 53.9     | 53.9     | 53.9     | 53.9     | 53.9    | 53.9    | 53.9    | 53.9    |
| GE 3500               | 39.1                             | 49.7     | 51.0     | 53.1     | 54.6     | 55.1     | 55.6     | 55.8     | 56.0     | 56.0     | 56.0     | 56.0     | 56.0    | 56.0    | 56.0    | 56.0    |
| GE 3000               | 42.3                             | 53.8     | 55.1     | 57.1     | 58.7     | 59.1     | 59.6     | 59.8     | 60.1     | 60.1     | 60.1     | 60.1     | 60.1    | 60.1    | 60.1    | 60.1    |
| GE 2500               | 47.1                             | 59.1     | 60.6     | 62.7     | 64.7     | 64.9     | 65.4     | 65.7     | 65.9     | 65.9     | 65.9     | 65.9     | 65.9    | 65.9    | 65.9    | 65.9    |
| GE 2000               | 52.0                             | 65.1     | 66.9     | 69.2     | 70.8     | 71.4     | 72.0     | 72.5     | 72.7     | 72.7     | 72.7     | 72.7     | 72.7    | 72.7    | 72.7    | 72.7    |
| GE 1800               | 54.4                             | 67.8     | 69.6     | 72.1     | 73.8     | 74.3     | 75.0     | 75.4     | 75.6     | 75.6     | 75.6     | 75.6     | 75.6    | 75.6    | 75.6    | 75.6    |
| GE 1600               | 56.5                             | 70.5     | 72.5     | 75.5     | 77.3     | 77.9     | 78.6     | 79.0     | 79.2     | 79.2     | 79.2     | 79.2     | 79.2    | 79.2    | 79.2    | 79.2    |
| GE 1200               | 59.7                             | 75.2     | 77.6     | 81.2     | 83.5     | 84.1     | 84.8     | 85.3     | 85.5     | 85.5     | 85.5     | 85.5     | 85.5    | 85.5    | 85.5    | 85.5    |
| GE 1000               | 60.3                             | 76.4     | 78.9     | 83.0     | 85.5     | 86.4     | 87.2     | 87.7     | 87.9     | 87.9     | 87.9     | 87.9     | 87.9    | 87.9    | 87.9    | 87.9    |
| GE 900                | 60.9                             | 77.5     | 80.0     | 84.2     | 86.0     | 87.8     | 88.6     | 89.1     | 89.3     | 89.3     | 89.3     | 89.3     | 89.3    | 89.3    | 89.3    | 89.3    |
| GE 800                | 61.5                             | 79.3     | 81.9     | 86.2     | 88.9     | 89.9     | 90.6     | 91.2     | 91.4     | 91.4     | 91.4     | 91.4     | 91.4    | 91.4    | 91.4    | 91.4    |
| GE 700                | 61.6                             | 79.7     | 82.6     | 87.1     | 90.0     | 91.0     | 91.8     | 92.6     | 92.8     | 92.8     | 92.8     | 92.8     | 92.8    | 92.8    | 92.8    | 92.8    |
| GE 600                | 61.7                             | 80.2     | 83.2     | 88.0     | 91.2     | 92.2     | 93.1     | 94.0     | 94.2     | 94.2     | 94.2     | 94.2     | 94.2    | 94.2    | 94.2    | 94.2    |
| GE 500                | 62.1                             | 81.1     | 84.2     | 89.4     | 92.7     | 93.8     | 94.9     | 95.8     | 96.0     | 96.2     | 96.2     | 96.2     | 96.2    | 96.2    | 96.2    | 96.2    |
| GE 400                | 62.1                             | 81.2     | 84.4     | 89.7     | 93.1     | 94.6     | 95.6     | 96.6     | 97.0     | 97.2     | 97.2     | 97.2     | 97.2    | 97.2    | 97.2    | 97.2    |
| GE 300                | 62.1                             | 81.2     | 84.7     | 90.1     | 93.7     | 95.2     | 96.7     | 98.2     | 98.5     | 98.7     | 98.7     | 98.7     | 98.7    | 98.7    | 98.7    | 98.7    |
| GE 200                | 62.1                             | 81.2     | 84.7     | 90.1     | 93.7     | 95.2     | 96.7     | 98.5     | 98.8     | 99.1     | 99.1     | 99.2     | 99.2    | 99.2    | 99.2    | 99.2    |
| GE 100                | 62.1                             | 81.2     | 84.7     | 90.1     | 93.9     | 95.3     | 96.8     | 98.8     | 99.1     | 99.5     | 99.5     | 99.6     | 99.7    | 99.7    | 99.7    | 99.7    |
| GE 01                 | 62.1                             | 81.2     | 84.7     | 90.1     | 93.9     | 95.3     | 96.8     | 98.8     | 99.1     | 99.5     | 99.6     | 99.7     | 99.8    | 99.9    | 100.0   | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 919

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 1500-1700

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |         |         |         |         |         |         |         |         |         |         |         |         |         |         |       |       |       |
|-----------------------|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|-------|-------|
|                       | 160<br>R                         | 80<br>8 | 60<br>6 | 48<br>4 | 40<br>0 | 32<br>2 | 24<br>2 | 20<br>0 | 16<br>1 | 12<br>1 | 10<br>0 | GE<br>R | GE<br>5 | GE<br>4 | GE<br>0 |       |       |       |
| NO CEIL               | 15.5                             | 19.6    | 20.0    | 21.3    | 22.4    | 22.6    | 22.9    | 23.1    | 23.1    | 23.1    | 23.1    | 23.1    | 23.1    | 23.1    | 23.1    | 23.1  | 23.1  | 23.1  |
| GE 20000              | 26.2                             | 32.4    | 33.4    | 34.8    | 36.0    | 36.2    | 36.8    | 37.1    | 37.1    | 37.1    | 37.1    | 37.1    | 37.1    | 37.1    | 37.1    | 37.1  | 37.1  | 37.1  |
| GE 18000              | 26.6                             | 32.6    | 33.7    | 35.1    | 36.3    | 36.6    | 37.1    | 37.4    | 37.4    | 37.4    | 37.4    | 37.4    | 37.4    | 37.4    | 37.4    | 37.4  | 37.4  | 37.4  |
| GE 16000              | 26.7                             | 33.1    | 39.1    | 35.5    | 36.7    | 36.9    | 37.4    | 37.8    | 37.8    | 37.8    | 37.8    | 37.8    | 37.8    | 37.8    | 37.8    | 37.8  | 37.8  | 37.8  |
| GE 14000              | 28.3                             | 34.8    | 35.8    | 37.2    | 38.4    | 38.6    | 39.2    | 39.5    | 39.5    | 39.5    | 39.5    | 39.5    | 39.5    | 39.5    | 39.5    | 39.5  | 39.5  | 39.5  |
| GE 12000              | 30.1                             | 37.2    | 38.2    | 39.6    | 40.8    | 41.0    | 41.7    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0    | 42.0  | 42.0  | 42.0  |
| GE 10000              | 33.2                             | 40.6    | 41.7    | 43.1    | 44.3    | 44.5    | 45.2    | 45.5    | 45.5    | 45.5    | 45.5    | 45.5    | 45.5    | 45.5    | 45.5    | 45.5  | 45.5  | 45.5  |
| GE 9000               | 34.1                             | 41.6    | 42.7    | 44.1    | 45.3    | 45.5    | 46.1    | 46.5    | 46.5    | 46.5    | 46.5    | 46.5    | 46.5    | 46.5    | 46.5    | 46.5  | 46.5  | 46.5  |
| GE 8000               | 34.8                             | 42.4    | 43.5    | 45.0    | 46.2    | 46.5    | 47.1    | 47.4    | 47.4    | 47.4    | 47.4    | 47.4    | 47.4    | 47.4    | 47.4    | 47.4  | 47.4  | 47.4  |
| GE 7000               | 34.9                             | 43.1    | 44.2    | 45.8    | 47.0    | 47.2    | 47.9    | 48.2    | 48.2    | 48.2    | 48.2    | 48.2    | 48.2    | 48.2    | 48.2    | 48.2  | 48.2  | 48.2  |
| GE 6000               | 35.8                             | 44.7    | 45.8    | 47.4    | 48.6    | 48.9    | 49.5    | 49.8    | 49.8    | 49.8    | 49.8    | 49.8    | 49.8    | 49.8    | 49.8    | 49.8  | 49.8  | 49.8  |
| GE 5000               | 38.1                             | 47.9    | 49.0    | 50.6    | 51.8    | 52.1    | 52.9    | 53.3    | 53.3    | 53.3    | 53.3    | 53.3    | 53.3    | 53.3    | 53.3    | 53.3  | 53.3  | 53.3  |
| GE 4000               | 40.3                             | 50.5    | 51.6    | 53.5    | 54.8    | 55.2    | 55.9    | 56.4    | 56.4    | 56.4    | 56.4    | 56.4    | 56.4    | 56.4    | 56.4    | 56.4  | 56.4  | 56.4  |
| GE 4000               | 42.5                             | 53.0    | 54.1    | 56.0    | 57.3    | 57.7    | 58.4    | 59.0    | 59.0    | 59.0    | 59.0    | 59.0    | 59.0    | 59.0    | 59.0    | 59.0  | 59.0  | 59.0  |
| GE 3500               | 45.0                             | 55.6    | 56.7    | 58.7    | 60.0    | 60.3    | 61.2    | 61.7    | 61.7    | 61.7    | 61.7    | 61.7    | 61.7    | 61.7    | 61.7    | 61.7  | 61.7  | 61.7  |
| GE 3000               | 48.1                             | 59.4    | 60.5    | 62.6    | 64.0    | 64.3    | 65.2    | 65.7    | 65.7    | 65.7    | 65.7    | 65.7    | 65.7    | 65.7    | 65.7    | 65.7  | 65.7  | 65.7  |
| GE 2500               | 50.6                             | 62.7    | 63.8    | 66.2    | 67.7    | 68.0    | 68.9    | 69.5    | 69.5    | 69.5    | 69.5    | 69.5    | 69.5    | 69.5    | 69.5    | 69.5  | 69.5  | 69.5  |
| GE 2000               | 51.1                             | 67.8    | 69.1    | 71.9    | 74.2    | 74.6    | 75.5    | 76.2    | 76.2    | 76.2    | 76.2    | 76.2    | 76.2    | 76.2    | 76.2    | 76.2  | 76.2  | 76.2  |
| GE 1800               | 55.1                             | 69.2    | 70.8    | 73.7    | 76.0    | 76.5    | 77.4    | 78.0    | 78.0    | 78.0    | 78.0    | 78.0    | 78.0    | 78.0    | 78.0    | 78.0  | 78.0  | 78.0  |
| GE 1500               | 56.7                             | 72.7    | 74.3    | 77.9    | 80.4    | 81.0    | 81.8    | 82.5    | 82.5    | 82.5    | 82.5    | 82.5    | 82.5    | 82.5    | 82.5    | 82.5  | 82.5  | 82.5  |
| GE 1200               | 58.8                             | 75.7    | 77.6    | 81.6    | 84.2    | 84.9    | 85.7    | 86.7    | 86.7    | 86.7    | 86.7    | 86.7    | 86.7    | 86.7    | 86.7    | 86.7  | 86.7  | 86.7  |
| GE 1000               | 59.1                             | 76.6    | 78.5    | 82.7    | 85.4    | 86.3    | 87.3    | 88.2    | 88.2    | 88.2    | 88.2    | 88.2    | 88.2    | 88.2    | 88.2    | 88.2  | 88.2  | 88.2  |
| GE 900                | 59.1                             | 76.9    | 79.0    | 83.4    | 86.2    | 87.3    | 88.4    | 89.4    | 89.4    | 89.4    | 89.4    | 89.4    | 89.4    | 89.4    | 89.4    | 89.4  | 89.4  | 89.4  |
| GE 800                | 59.7                             | 78.0    | 80.4    | 85.1    | 88.0    | 89.3    | 90.4    | 91.5    | 91.5    | 91.5    | 91.5    | 91.5    | 91.5    | 91.5    | 91.5    | 91.5  | 91.5  | 91.5  |
| GE 700                | 59.8                             | 78.5    | 81.1    | 85.9    | 89.1    | 90.5    | 91.6    | 92.9    | 93.1    | 93.3    | 93.3    | 93.3    | 93.3    | 93.3    | 93.3    | 93.3  | 93.3  | 93.3  |
| GE 600                | 60.2                             | 79.0    | 81.7    | 86.8    | 90.5    | 92.1    | 93.4    | 94.9    | 95.1    | 95.2    | 95.2    | 95.2    | 95.2    | 95.2    | 95.2    | 95.2  | 95.2  | 95.2  |
| GE 500                | 60.5                             | 79.7    | 82.6    | 87.7    | 91.5    | 93.3    | 94.7    | 96.3    | 96.5    | 96.6    | 96.6    | 96.7    | 96.7    | 96.8    | 96.8    | 96.8  | 96.8  | 96.8  |
| GE 400                | 60.6                             | 80.0    | 82.9    | 88.1    | 92.2    | 93.9    | 95.4    | 97.1    | 97.3    | 97.4    | 97.4    | 97.5    | 97.5    | 97.6    | 97.6    | 97.6  | 97.6  | 97.6  |
| GE 300                | 60.6                             | 80.0    | 82.9    | 88.2    | 92.5    | 94.2    | 96.0    | 97.6    | 97.9    | 98.0    | 98.0    | 98.2    | 98.2    | 98.3    | 98.3    | 98.3  | 98.3  | 98.3  |
| GE 200                | 60.6                             | 80.0    | 82.9    | 88.4    | 92.7    | 94.8    | 96.7    | 98.7    | 99.0    | 99.2    | 99.2    | 99.3    | 99.3    | 99.5    | 99.5    | 99.5  | 99.5  | 99.5  |
| GE 100                | 60.6                             | 80.0    | 82.9    | 88.4    | 92.9    | 94.9    | 96.8    | 98.9    | 99.2    | 99.7    | 99.7    | 99.8    | 99.8    | 99.9    | 99.9    | 99.9  | 99.9  | 99.9  |
| GE 0                  | 60.6                             | 80.0    | 82.9    | 88.4    | 92.9    | 94.9    | 96.8    | 98.9    | 99.2    | 99.7    | 99.8    | 99.9    | 99.9    | 100.0   | 100.0   | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 919

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS/LIST: 1800-2000

| CEILING  | VISIBILITY IN HUNDREDS OF METERS |           |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|----------|----------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|          | IN<br>FEET                       | GT<br>160 | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL  | 20.2                             | 23.2      | 24.5     | 26.4     | 27.9     | 28.9     | 29.3     | 30.1     | 30.4     | 30.5     | 30.7     | 30.7     | 30.7    | 30.7    | 30.8    | 31.0    |
| GE 20000 | 28.2                             | 33.5      | 35.2     | 37.6     | 39.7     | 40.6     | 41.3     | 42.1     | 42.4     | 42.6     | 42.8     | 42.8     | 42.8    | 42.8    | 42.9    | 43.1    |
| GE 18000 | 28.2                             | 33.5      | 35.2     | 37.6     | 39.7     | 40.6     | 41.3     | 42.1     | 42.4     | 42.6     | 42.8     | 42.8     | 42.8    | 42.8    | 42.9    | 43.1    |
| GE 16000 | 28.2                             | 33.5      | 35.2     | 37.6     | 39.7     | 40.6     | 41.3     | 42.1     | 42.4     | 42.6     | 42.8     | 42.8     | 42.8    | 42.8    | 42.9    | 43.1    |
| GE 14000 | 28.9                             | 34.4      | 36.1     | 38.6     | 40.6     | 41.6     | 42.3     | 43.0     | 43.4     | 43.6     | 43.8     | 43.8     | 43.8    | 43.8    | 43.9    | 44.1    |
| GE 12000 | 30.9                             | 36.6      | 38.5     | 41.1     | 43.1     | 44.1     | 44.9     | 45.6     | 45.9     | 46.2     | 46.4     | 46.4     | 46.4    | 46.4    | 46.5    | 46.7    |
| GE 10000 | 32.9                             | 38.8      | 41.1     | 44.2     | 46.4     | 47.4     | 48.2     | 49.0     | 49.3     | 49.5     | 49.7     | 49.7     | 49.7    | 49.7    | 49.8    | 50.1    |
| GE 9000  | 34.7                             | 40.8      | 43.2     | 46.5     | 48.6     | 49.6     | 50.5     | 51.4     | 51.7     | 51.9     | 52.1     | 52.1     | 52.1    | 52.1    | 52.2    | 52.4    |
| GE 8000  | 35.0                             | 41.2      | 43.7     | 46.9     | 49.1     | 50.1     | 50.9     | 51.8     | 52.1     | 52.3     | 52.5     | 52.5     | 52.5    | 52.5    | 52.6    | 52.9    |
| GE 7000  | 35.1                             | 41.5      | 44.0     | 47.2     | 49.4     | 50.4     | 51.2     | 52.1     | 52.4     | 52.6     | 52.9     | 52.9     | 52.9    | 52.9    | 53.0    | 53.2    |
| GE 6000  | 35.6                             | 42.4      | 45.0     | 48.2     | 50.4     | 51.4     | 52.2     | 53.1     | 53.4     | 53.6     | 53.8     | 53.8     | 53.8    | 53.8    | 53.9    | 54.2    |
| GE 5000  | 37.3                             | 45.4      | 48.3     | 51.7     | 53.8     | 54.9     | 55.8     | 56.8     | 57.1     | 57.3     | 57.5     | 57.6     | 57.6    | 57.7    | 57.7    | 57.9    |
| GE 4500  | 38.6                             | 47.5      | 50.4     | 53.9     | 56.2     | 57.3     | 58.2     | 59.1     | 59.5     | 59.7     | 59.9     | 60.0     | 60.0    | 60.0    | 60.1    | 60.3    |
| GE 4000  | 39.6                             | 48.4      | 51.4     | 55.1     | 57.5     | 58.6     | 59.5     | 60.4     | 60.8     | 61.0     | 61.2     | 61.3     | 61.3    | 61.3    | 61.4    | 61.6    |
| GE 3500  | 40.0                             | 48.9      | 51.9     | 55.7     | 58.3     | 59.5     | 60.3     | 61.3     | 61.6     | 61.8     | 62.1     | 62.2     | 62.2    | 62.2    | 62.3    | 62.5    |
| GE 3000  | 43.8                             | 53.2      | 56.3     | 60.1     | 62.7     | 63.9     | 64.8     | 65.7     | 66.1     | 66.3     | 66.5     | 66.6     | 66.6    | 66.6    | 66.7    | 66.9    |
| GE 2500  | 45.5                             | 55.6      | 59.1     | 63.5     | 66.3     | 67.6     | 68.4     | 69.4     | 69.7     | 69.9     | 70.2     | 70.3     | 70.3    | 70.3    | 70.4    | 70.6    |
| GE 2000  | 47.5                             | 58.7      | 62.6     | 67.7     | 71.0     | 72.6     | 73.5     | 74.6     | 75.0     | 75.2     | 75.5     | 75.6     | 75.6    | 75.6    | 75.7    | 75.9    |
| GF 1800  | 47.8                             | 60.4      | 64.4     | 69.8     | 73.7     | 74.8     | 75.7     | 76.9     | 77.3     | 77.7     | 77.9     | 78.1     | 78.1    | 78.1    | 78.2    | 78.4    |
| GE 1500  | 48.3                             | 61.4      | 65.6     | 71.7     | 75.1     | 76.8     | 77.6     | 79.1     | 79.6     | 80.1     | 80.3     | 80.4     | 80.4    | 80.4    | 80.5    | 80.8    |
| GE 1200  | 49.6                             | 63.6      | 68.1     | 74.2     | 77.8     | 79.5     | 80.4     | 82.2     | 82.6     | 83.1     | 83.4     | 83.5     | 83.5    | 83.5    | 83.6    | 83.8    |
| GF 1700  | 49.8                             | 64.4      | 69.1     | 75.8     | 79.5     | 81.2     | 82.5     | 84.2     | 84.6     | 85.2     | 85.4     | 85.5     | 85.5    | 85.5    | 85.6    | 85.8    |
| GE 900   | 50.1                             | 65.2      | 69.9     | 77.1     | 80.8     | 82.5     | 83.8     | 85.5     | 85.9     | 86.5     | 86.7     | 86.8     | 86.8    | 86.8    | 86.9    | 87.1    |
| GE 800   | 50.2                             | 66.1      | 71.0     | 78.5     | 82.4     | 84.1     | 85.5     | 87.2     | 87.7     | 88.3     | 88.5     | 88.6     | 88.6    | 88.6    | 88.8    | 89.0    |
| GE 700   | 50.4                             | 66.7      | 71.9     | 79.8     | 83.8     | 85.6     | 87.0     | 88.8     | 89.2     | 89.8     | 90.1     | 90.2     | 90.2    | 90.2    | 90.3    | 90.5    |
| GE 600   | 50.5                             | 67.1      | 72.4     | 80.5     | 85.1     | 87.2     | 88.8     | 90.5     | 90.9     | 91.6     | 91.8     | 91.9     | 91.9    | 91.9    | 92.0    | 92.2    |
| GF 500   | 50.7                             | 67.7      | 73.0     | 81.2     | 85.3     | 88.1     | 89.7     | 91.8     | 92.2     | 93.0     | 93.3     | 93.4     | 93.4    | 93.4    | 93.5    | 93.7    |
| GE 400   | 50.7                             | 68.3      | 73.9     | 82.3     | 87.0     | 89.4     | 91.1     | 93.3     | 93.8     | 94.6     | 94.9     | 95.0     | 95.0    | 95.0    | 95.1    | 95.4    |
| GE 300   | 50.7                             | 68.4      | 74.3     | 82.7     | 87.7     | 90.3     | 92.0     | 94.5     | 95.0     | 95.8     | 96.1     | 96.2     | 96.2    | 96.2    | 96.3    | 96.5    |
| GE 200   | 50.7                             | 68.4      | 74.3     | 82.8     | 87.9     | 90.5     | 92.4     | 95.1     | 95.8     | 96.5     | 97.1     | 97.2     | 97.3    | 97.3    | 97.4    | 97.6    |
| GE 100   | 50.7                             | 68.4      | 74.3     | 82.8     | 88.1     | 91.0     | 93.3     | 96.3     | 97.2     | 98.1     | 98.7     | 98.8     | 99.7    | 99.0    | 99.2    | 99.6    |
| GE 0     | 50.7                             | 68.4      | 74.3     | 82.8     | 88.1     | 91.0     | 93.3     | 96.3     | 97.2     | 98.1     | 98.7     | 98.9     | 99.1    | 99.1    | 99.5    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 925

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): 2100-2300

| NO CЕIL  | VISIBILITY IN HUNDREDS OF METERS |           |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |
|----------|----------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|
|          | IN<br>FEET                       | GT<br>160 | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |  |  |
| NO CЕIL  | 18.7                             | 25.4      | 26.2     | 28.5     | 29.9     | 31.2     | 32.3     | 32.9     | 33.1     | 33.1     | 33.5     | 33.6     | 33.7     | 34.2    | 34.3    | 34.9    |         |  |  |
| GE 20000 | 24.1                             | 33.3      | 34.7     | 37.4     | 39.2     | 40.6     | 42.1     | 42.6     | 42.8     | 42.8     | 43.3     | 43.4     | 43.6     | 44.0    | 44.1    | 44.8    |         |  |  |
| GE 18000 | 24.2                             | 33.5      | 34.9     | 37.6     | 39.4     | 40.8     | 42.3     | 42.8     | 43.1     | 43.1     | 43.5     | 43.6     | 43.8     | 44.3    | 44.4    | 45.0    |         |  |  |
| GE 16000 | 24.2                             | 33.6      | 35.0     | 37.7     | 39.5     | 40.9     | 42.4     | 43.0     | 43.2     | 43.2     | 43.6     | 43.7     | 43.9     | 44.4    | 44.5    | 45.1    |         |  |  |
| GE 14000 | 24.9                             | 34.6      | 36.0     | 38.7     | 40.5     | 41.9     | 43.4     | 43.9     | 44.1     | 44.1     | 44.6     | 44.7     | 44.9     | 45.3    | 45.4    | 46.1    |         |  |  |
| GE 12000 | 25.9                             | 36.1      | 37.6     | 40.3     | 42.1     | 43.5     | 45.0     | 45.6     | 45.8     | 45.8     | 46.2     | 46.3     | 46.5     | 47.0    | 47.1    | 47.7    |         |  |  |
| GE 10000 | 26.9                             | 38.1      | 39.7     | 42.4     | 44.1     | 46.0     | 47.5     | 48.0     | 48.3     | 48.3     | 48.7     | 48.8     | 49.0     | 49.5    | 49.6    | 50.2    |         |  |  |
| GE 9000  | 27.8                             | 39.3      | 41.0     | 43.8     | 45.6     | 47.4     | 48.9     | 49.5     | 49.7     | 49.7     | 50.1     | 50.2     | 50.4     | 51.0    | 51.6    |         |         |  |  |
| GE 8000  | 27.9                             | 39.6      | 41.3     | 44.1     | 45.9     | 47.7     | 49.2     | 49.8     | 50.0     | 50.0     | 50.4     | 50.5     | 50.8     | 51.2    | 51.3    | 52.0    |         |  |  |
| GE 7000  | 27.9                             | 39.9      | 41.6     | 44.5     | 46.2     | 48.0     | 49.6     | 50.1     | 50.3     | 50.3     | 50.8     | 50.9     | 51.1     | 51.5    | 51.6    | 52.3    |         |  |  |
| GE 6000  | 26.9                             | 41.6      | 43.5     | 46.3     | 48.0     | 49.9     | 51.6     | 52.2     | 52.4     | 52.4     | 52.8     | 52.9     | 53.1     | 53.6    | 53.7    | 54.3    |         |  |  |
| GE 5000  | 29.9                             | 43.6      | 45.4     | 48.5     | 50.4     | 52.4     | 54.1     | 54.7     | 54.9     | 54.9     | 55.3     | 55.8     | 55.6     | 56.1    | 56.2    | 56.8    |         |  |  |
| GE 4500  | 30.6                             | 44.9      | 46.9     | 50.0     | 52.1     | 54.1     | 56.2     | 56.8     | 57.0     | 57.0     | 57.5     | 57.6     | 57.8     | 58.2    | 58.4    | 59.0    |         |  |  |
| GE 4000  | 31.6                             | 46.0      | 48.0     | 51.3     | 53.7     | 55.7     | 57.8     | 58.5     | 58.7     | 58.7     | 59.1     | 59.2     | 59.4     | 59.9    | 60.0    | 60.6    |         |  |  |
| GE 3500  | 32.2                             | 46.9      | 49.1     | 52.4     | 54.8     | 56.8     | 58.9     | 59.7     | 59.9     | 59.9     | 60.3     | 60.4     | 60.6     | 61.1    | 61.2    | 61.8    |         |  |  |
| GE 3000  | 34.5                             | 49.9      | 52.3     | 56.0     | 58.4     | 60.5     | 62.7     | 63.4     | 63.7     | 63.7     | 64.1     | 64.2     | 64.4     | 64.9    | 65.0    | 65.6    |         |  |  |
| GE 2500  | 36.0                             | 52.4      | 55.3     | 59.0     | 61.5     | 63.7     | 65.9     | 66.7     | 66.9     | 66.9     | 67.4     | 67.5     | 67.7     | 68.1    | 68.2    | 68.9    |         |  |  |
| GE 2000  | 37.7                             | 55.5      | 58.5     | 62.6     | 65.4     | 67.8     | 70.3     | 71.3     | 71.5     | 71.6     | 72.0     | 72.1     | 72.3     | 72.8    | 72.9    | 73.5    |         |  |  |
| GE 1800  | 38.4                             | 56.7      | 59.8     | 64.0     | 66.9     | 69.3     | 71.8     | 73.0     | 73.2     | 73.4     | 73.9     | 74.0     | 74.2     | 74.6    | 74.7    | 75.4    |         |  |  |
| GE 1500  | 39.0                             | 58.7      | 61.7     | 66.1     | 69.2     | 71.6     | 74.2     | 75.7     | 75.9     | 76.1     | 76.6     | 76.7     | 76.9     | 77.3    | 77.4    | 78.2    |         |  |  |
| GE 1200  | 39.8                             | 60.3      | 63.8     | 68.3     | 71.9     | 74.4     | 77.0     | 78.9     | 79.3     | 79.6     | 80.0     | 80.2     | 80.4     | 80.8    | 80.9    | 81.7    |         |  |  |
| GE 1000  | 40.6                             | 61.6      | 65.2     | 69.8     | 73.5     | 76.2     | 79.0     | 81.1     | 81.6     | 81.9     | 82.3     | 82.4     | 82.6     | 83.1    | 83.2    | 83.9    |         |  |  |
| GE 900   | 40.6                             | 61.7      | 65.4     | 70.4     | 74.1     | 76.8     | 79.6     | 81.8     | 82.2     | 82.5     | 83.0     | 83.1     | 83.3     | 83.7    | 83.8    | 84.6    |         |  |  |
| GE 800   | 41.2                             | 62.7      | 66.4     | 71.5     | 75.2     | 77.9     | 80.7     | 82.9     | 83.3     | 83.8     | 84.3     | 84.4     | 84.6     | 85.0    | 85.1    | 85.9    |         |  |  |
| GE 700   | 41.9                             | 64.0      | 67.8     | 73.0     | 77.7     | 80.0     | 82.9     | 85.0     | 85.5     | 86.0     | 86.6     | 86.7     | 86.9     | 87.3    | 87.4    | 88.2    |         |  |  |
| GE 600   | 42.1                             | 64.5      | 68.4     | 74.1     | 78.5     | 81.8     | 84.6     | 87.2     | 87.7     | 88.3     | 88.8     | 88.9     | 89.2     | 89.6    | 89.7    | 90.5    |         |  |  |
| GE 500   | 42.2                             | 65.5      | 69.4     | 75.2     | 79.7     | 83.1     | 85.9     | 88.5     | 89.0     | 89.7     | 90.2     | 90.3     | 90.6     | 91.0    | 91.1    | 91.9    |         |  |  |
| GE 400   | 42.2                             | 66.4      | 70.4     | 76.4     | 81.2     | 84.7     | 87.6     | 90.3     | 90.9     | 91.5     | 92.1     | 92.2     | 92.4     | 92.8    | 93.0    | 93.7    |         |  |  |
| GE 300   | 42.2                             | 66.6      | 70.6     | 76.8     | 81.9     | 85.6     | 88.6     | 91.5     | 92.3     | 93.0     | 93.5     | 93.6     | 93.8     | 94.3    | 94.4    | 95.1    |         |  |  |
| GE 200   | 42.2                             | 66.7      | 70.7     | 77.1     | 82.5     | 86.3     | 89.5     | 92.6     | 93.9     | 94.0     | 94.6     | 94.7     | 94.9     | 95.3    | 95.4    | 96.2    |         |  |  |
| GE 100   | 42.2                             | 66.7      | 70.7     | 77.2     | 82.6     | 86.6     | 89.7     | 93.7     | 94.6     | 95.4     | 96.2     | 96.3     | 96.6     | 97.1    | 97.2    | 98.3    |         |  |  |
| GE 0     | 42.2                             | 66.7      | 70.7     | 77.2     | 82.6     | 86.6     | 89.7     | 93.7     | 94.6     | 95.4     | 96.3     | 96.5     | 96.9     | 97.7    | 97.8    | 100.0   |         |  |  |

TOTAL NUMBER OF OBSERVATIONS: 922

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: OCT HOURS(LST): ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |  |  |
| NO CEIL               | 16.0                             | 20.8     | 21.8     | 23.4     | 24.5     | 25.2     | 25.8     | 26.4     | 26.8     | 27.1     | 27.3     | 27.4     | 27.6    | 27.9    | 28.0    | 28.9    |  |  |
| GE 20000              | 22.9                             | 29.7     | 31.2     | 33.1     | 34.5     | 35.2     | 36.0     | 36.9     | 37.2     | 37.6     | 37.8     | 37.9     | 38.2    | 38.6    | 38.7    | 39.6    |  |  |
| GE 18000              | 23.1                             | 29.8     | 31.4     | 33.3     | 34.7     | 35.4     | 36.2     | 37.1     | 37.4     | 37.8     | 38.0     | 38.1     | 38.4    | 38.8    | 38.9    | 39.8    |  |  |
| GE 16000              | 23.2                             | 30.0     | 31.5     | 33.4     | 34.8     | 35.5     | 36.3     | 37.2     | 37.6     | 37.9     | 38.1     | 38.2     | 38.5    | 38.9    | 39.0    | 39.9    |  |  |
| GE 14000              | 24.0                             | 31.0     | 32.6     | 34.5     | 36.0     | 36.7     | 37.5     | 38.4     | 38.7     | 39.1     | 39.3     | 39.4     | 39.6    | 40.1    | 40.1    | 41.1    |  |  |
| GE 12000              | 25.2                             | 32.6     | 34.2     | 36.1     | 37.6     | 38.3     | 39.2     | 40.1     | 40.4     | 40.8     | 41.0     | 41.1     | 41.4    | 41.8    | 41.9    | 42.8    |  |  |
| GE 10000              | 26.9                             | 34.7     | 36.4     | 38.5     | 40.1     | 40.9     | 41.8     | 42.7     | 43.0     | 43.4     | 43.6     | 43.8     | 44.0    | 44.4    | 44.5    | 45.4    |  |  |
| GE 9000               | 27.9                             | 36.0     | 37.8     | 40.0     | 41.6     | 42.4     | 43.3     | 44.3     | 44.6     | 45.0     | 45.2     | 45.4     | 45.6    | 46.0    | 46.1    | 47.0    |  |  |
| GE 8000               | 28.2                             | 36.4     | 38.2     | 40.4     | 42.0     | 42.9     | 43.8     | 44.7     | 45.1     | 45.5     | 45.7     | 45.8     | 46.1    | 46.5    | 46.6    | 47.5    |  |  |
| GE 7000               | 28.3                             | 36.8     | 38.5     | 40.8     | 42.5     | 43.3     | 44.2     | 45.2     | 45.6     | 45.9     | 46.1     | 46.3     | 46.5    | 47.0    | 47.1    | 48.0    |  |  |
| GE 6000               | 29.0                             | 37.9     | 39.7     | 42.0     | 43.7     | 44.5     | 45.5     | 46.5     | 46.8     | 47.2     | 47.4     | 47.6     | 47.8    | 48.3    | 48.4    | 49.3    |  |  |
| GE 5000               | 30.8                             | 40.6     | 42.6     | 45.0     | 46.7     | 47.6     | 48.7     | 49.7     | 50.1     | 50.5     | 50.7     | 50.9     | 51.2    | 51.6    | 51.7    | 52.7    |  |  |
| GE 4500               | 31.9                             | 42.1     | 44.1     | 46.8     | 48.6     | 49.5     | 50.6     | 51.7     | 52.1     | 52.5     | 52.7     | 52.9     | 53.1    | 53.6    | 53.7    | 54.7    |  |  |
| GE 4000               | 33.4                             | 43.9     | 45.9     | 48.7     | 50.7     | 51.6     | 52.7     | 53.9     | 54.3     | 54.7     | 54.9     | 55.0     | 55.3    | 55.8    | 55.9    | 56.9    |  |  |
| GE 3500               | 34.3                             | 45.1     | 47.2     | 50.0     | 52.1     | 53.0     | 54.1     | 55.3     | 55.7     | 56.1     | 56.3     | 56.5     | 56.7    | 57.2    | 57.3    | 58.3    |  |  |
| GE 3000               | 36.6                             | 48.0     | 50.2     | 53.2     | 55.3     | 56.3     | 57.4     | 58.6     | 59.0     | 59.4     | 59.6     | 59.7     | 60.0    | 60.5    | 60.6    | 61.6    |  |  |
| GE 2500               | 38.7                             | 50.8     | 53.2     | 56.5     | 58.8     | 59.8     | 61.0     | 62.2     | 62.6     | 63.0     | 63.2     | 63.4     | 63.7    | 64.2    | 64.3    | 65.2    |  |  |
| GE 2000               | 41.2                             | 54.5     | 57.2     | 60.8     | 63.5     | 64.7     | 66.0     | 67.4     | 67.9     | 68.3     | 68.5     | 68.7     | 69.0    | 69.5    | 69.6    | 70.6    |  |  |
| GE 1800               | 42.2                             | 56.0     | 58.8     | 62.6     | 65.4     | 66.7     | 68.0     | 69.6     | 70.0     | 70.5     | 70.9     | 71.2     | 71.7    | 71.9    | 72.9    |         |  |  |
| GE 1500               | 43.4                             | 58.2     | 61.1     | 65.3     | 68.3     | 69.6     | 70.9     | 72.7     | 73.2     | 73.7     | 74.0     | 74.1     | 74.9    | 75.1    | 76.1    |         |  |  |
| GE 1200               | 45.1                             | 61.0     | 64.3     | 68.8     | 72.0     | 73.4     | 74.8     | 76.8     | 77.3     | 77.9     | 78.1     | 78.3     | 78.6    | 79.1    | 79.2    | 80.3    |  |  |
| GE 1000               | 45.7                             | 62.3     | 65.6     | 70.4     | 73.9     | 75.5     | 76.9     | 79.0     | 79.5     | 80.1     | 80.4     | 80.6     | 80.9    | 81.4    | 81.5    | 82.6    |  |  |
| GE 900                | 46.1                             | 63.0     | 66.5     | 71.4     | 75.0     | 76.6     | 78.1     | 80.3     | 80.9     | 81.5     | 81.7     | 81.9     | 82.2    | 82.7    | 82.9    | 83.9    |  |  |
| GE 800                | 46.5                             | 64.2     | 67.8     | 72.9     | 76.7     | 78.4     | 79.9     | 82.1     | 82.7     | 83.3     | 83.6     | 83.7     | 84.1    | 84.6    | 84.7    | 85.7    |  |  |
| GE 700                | 46.8                             | 65.0     | 68.8     | 74.2     | 78.2     | 80.0     | 81.6     | 83.9     | 84.5     | 85.1     | 85.4     | 85.5     | 85.9    | 86.4    | 86.5    | 87.5    |  |  |
| GE 600                | 47.1                             | 65.8     | 69.7     | 75.4     | 79.8     | 81.7     | 83.4     | 85.9     | 86.5     | 87.1     | 87.4     | 87.6     | 88.0    | 88.5    | 88.6    | 89.6    |  |  |
| GE 500                | 47.2                             | 66.4     | 70.5     | 76.3     | 80.8     | 82.8     | 84.6     | 87.2     | 87.8     | 88.5     | 88.8     | 89.0     | 89.3    | 89.9    | 90.0    | 91.0    |  |  |
| GE 400                | 47.3                             | 66.9     | 71.1     | 77.1     | 81.8     | 84.0     | 85.9     | 88.6     | 89.3     | 90.1     | 90.3     | 90.5     | 90.9    | 91.4    | 91.5    | 92.6    |  |  |
| GE 300                | 47.3                             | 67.1     | 71.5     | 77.6     | 82.5     | 85.0     | 87.1     | 90.0     | 90.8     | 91.6     | 91.9     | 92.1     | 92.4    | 93.0    | 93.1    | 94.1    |  |  |
| GE 200                | 47.3                             | 67.2     | 71.6     | 77.9     | 83.1     | 85.7     | 88.0     | 91.2     | 92.1     | 93.0     | 93.3     | 93.5     | 93.9    | 94.5    | 94.6    | 95.7    |  |  |
| GE 100                | 47.3                             | 67.2     | 71.6     | 77.9     | 83.3     | 86.0     | 88.4     | 92.0     | 93.0     | 94.1     | 94.5     | 94.7     | 95.2    | 95.9    | 96.1    | 97.6    |  |  |
| GE 0                  | 47.3                             | 67.2     | 71.6     | 77.9     | 83.3     | 86.0     | 88.4     | 92.0     | 93.0     | 94.1     | 94.6     | 94.9     | 95.5    | 96.5    | 96.7    | 100.0   |  |  |

TOTAL NUMBER OF OBSERVATIONS: 7378

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0000-0200

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL               | 19.0                             | 25.4     | 26.3     | 27.4     | 28.5     | 29.5     | 30.9     | 31.8     | 32.3     | 32.7     | 32.8     | 32.8     | 33.0    | 33.4    | 33.5    | 35.0    |
| GE 20000              | 22.3                             | 29.6     | 31.3     | 32.4     | 33.9     | 34.9     | 36.4     | 37.5     | 38.1     | 38.5     | 38.7     | 38.7     | 38.9    | 39.3    | 39.6    | 41.1    |
| GE 18000              | 22.5                             | 29.7     | 31.4     | 32.5     | 34.0     | 35.0     | 36.5     | 37.7     | 38.2     | 38.7     | 38.8     | 38.8     | 39.0    | 39.4    | 39.7    | 41.2    |
| GE 16000              | 22.5                             | 29.7     | 31.4     | 32.5     | 34.0     | 35.0     | 36.5     | 37.7     | 38.2     | 38.7     | 38.8     | 38.8     | 39.0    | 39.4    | 39.7    | 41.2    |
| GE 14000              | 22.8                             | 30.1     | 31.6     | 33.0     | 34.4     | 35.4     | 37.0     | 38.1     | 38.7     | 39.1     | 39.2     | 39.4     | 39.9    | 40.1    | 41.7    |         |
| GE 12000              | 23.1                             | 30.6     | 32.5     | 33.6     | 35.1     | 36.1     | 37.7     | 38.8     | 39.3     | 39.8     | 39.9     | 40.1     | 40.6    | 40.8    | 42.3    |         |
| GE 10000              | 23.9                             | 31.8     | 33.7     | 34.9     | 36.5     | 37.7     | 39.4     | 40.9     | 41.5     | 41.9     | 42.0     | 42.0     | 42.2    | 42.7    | 42.9    | 44.5    |
| GE 9000               | 24.4                             | 32.4     | 34.4     | 35.8     | 37.4     | 38.7     | 40.4     | 42.0     | 42.6     | 43.0     | 43.1     | 43.1     | 43.4    | 43.8    | 44.0    | 45.6    |
| GE 8000               | 24.5                             | 32.5     | 34.5     | 35.9     | 37.5     | 38.8     | 40.6     | 42.1     | 42.7     | 43.1     | 43.2     | 43.5     | 43.9    | 44.1    | 45.7    |         |
| GE 7000               | 24.9                             | 33.1     | 35.1     | 36.4     | 38.1     | 39.3     | 41.1     | 42.7     | 43.2     | 43.7     | 43.8     | 43.8     | 44.0    | 44.5    | 44.7    | 46.3    |
| GE 6000               | 25.5                             | 34.1     | 36.1     | 37.5     | 39.3     | 40.6     | 42.3     | 43.9     | 44.5     | 44.9     | 45.0     | 45.0     | 45.3    | 45.7    | 45.9    | 47.5    |
| GE 5000               | 27.3                             | 36.5     | 38.5     | 40.2     | 42.2     | 43.5     | 45.3     | 46.8     | 47.4     | 47.8     | 47.9     | 47.9     | 48.2    | 48.6    | 48.8    | 50.4    |
| GE 4500               | 28.6                             | 38.1     | 40.2     | 42.0     | 44.0     | 45.3     | 47.2     | 48.8     | 49.4     | 49.8     | 50.2     | 50.6     | 50.8    | 52.4    |         |         |
| GE 4000               | 29.7                             | 39.4     | 41.6     | 43.5     | 45.5     | 46.7     | 48.6     | 50.3     | 50.9     | 51.4     | 51.5     | 51.5     | 51.7    | 52.2    | 52.4    | 54.0    |
| GE 3500               | 30.7                             | 40.6     | 42.8     | 45.4     | 47.5     | 48.9     | 50.8     | 52.5     | 53.3     | 53.7     | 53.9     | 53.9     | 54.1    | 54.5    | 54.7    | 56.3    |
| GE 3000               | 33.2                             | 43.6     | 45.9     | 49.1     | 51.7     | 53.3     | 55.2     | 57.0     | 57.8     | 58.3     | 58.4     | 58.4     | 58.7    | 59.1    | 59.3    | 60.9    |
| GE 2500               | 36.0                             | 46.8     | 49.4     | 52.6     | 55.4     | 57.0     | 59.2     | 61.0     | 61.8     | 62.3     | 62.5     | 62.5     | 62.7    | 63.1    | 63.4    | 64.9    |
| GE 2000               | 37.9                             | 50.5     | 53.6     | 57.2     | 60.3     | 61.9     | 64.1     | 65.9     | 66.7     | 67.4     | 67.5     | 67.5     | 67.7    | 68.2    | 68.4    | 69.9    |
| GE 1800               | 38.4                             | 51.4     | 54.6     | 58.2     | 61.3     | 62.9     | 65.1     | 66.9     | 67.8     | 68.5     | 68.6     | 68.6     | 68.8    | 69.3    | 69.5    | 71.1    |
| GE 1500               | 39.1                             | 53.2     | 56.4     | 60.1     | 63.2     | 64.8     | 67.0     | 68.8     | 69.7     | 70.4     | 70.6     | 70.6     | 70.8    | 71.3    | 71.5    | 73.1    |
| GE 1200               | 40.4                             | 56.0     | 59.4     | 63.5     | 66.7     | 68.4     | 70.6     | 72.4     | 73.4     | 74.1     | 74.3     | 74.5     | 75.0    | 75.2    | 76.8    |         |
| GE 1000               | 41.6                             | 57.9     | 61.5     | 65.6     | 69.1     | 70.7     | 73.0     | 74.9     | 75.9     | 76.5     | 76.8     | 76.8     | 77.0    | 77.5    | 77.8    | 79.4    |
| GE 900                | 41.9                             | 58.5     | 62.1     | 66.6     | 70.2     | 71.8     | 74.1     | 76.0     | 77.0     | 77.7     | 77.9     | 77.9     | 78.1    | 78.7    | 78.9    | 80.6    |
| GE 800                | 42.1                             | 59.1     | 62.8     | 67.6     | 71.4     | 73.1     | 75.3     | 77.4     | 78.4     | 79.1     | 79.3     | 79.3     | 79.6    | 80.1    | 80.3    | 82.1    |
| GE 700                | 42.3                             | 60.3     | 64.4     | 69.7     | 73.7     | 75.4     | 77.7     | 80.0     | 81.0     | 81.8     | 82.0     | 82.0     | 82.2    | 82.8    | 83.0    | 84.9    |
| GE 600                | 42.5                             | 60.9     | 65.4     | 71.4     | 75.9     | 77.5     | 79.9     | 82.2     | 83.4     | 84.1     | 84.4     | 84.4     | 84.6    | 85.1    | 85.4    | 87.3    |
| GE 500                | 42.5                             | 61.3     | 66.1     | 72.8     | 77.5     | 79.4     | 81.9     | 84.6     | 85.7     | 86.5     | 86.7     | 86.7     | 86.9    | 87.5    | 87.7    | 89.6    |
| GE 400                | 42.6                             | 61.9     | 67.2     | 74.1     | 79.2     | 81.2     | 83.9     | 86.6     | 87.7     | 88.6     | 88.8     | 88.8     | 89.1    | 89.6    | 89.8    | 91.7    |
| GE 300                | 42.6                             | 62.1     | 67.4     | 74.6     | 80.1     | 82.6     | 85.3     | 88.2     | 89.4     | 90.3     | 90.6     | 90.6     | 90.8    | 91.4    | 91.6    | 93.5    |
| GE 200                | 42.6                             | 62.5     | 67.7     | 75.3     | 81.0     | 83.5     | 86.4     | 89.5     | 90.7     | 91.6     | 92.0     | 92.0     | 92.2    | 92.7    | 93.0    | 94.9    |
| GE 100                | 42.6                             | 62.5     | 67.7     | 75.3     | 81.0     | 83.6     | 86.6     | 90.1     | 91.3     | 92.5     | 92.8     | 92.8     | 93.3    | 94.1    | 94.3    | 96.3    |
| GE 0                  | 42.6                             | 62.5     | 67.7     | 75.3     | 81.1     | 83.7     | 86.7     | 90.2     | 91.4     | 92.7     | 93.2     | 93.4     | 94.0    | 95.4    | 95.6    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 895

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0300-0500

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |
| NO CEIL               | 19.6                             | 24.6     | 25.8     | 26.8     | 27.8     | 28.3     | 29.4     | 30.7     | 30.8     | 31.1     | 31.3     | 31.3    | 31.4    | 32.1    | 32.4    | 34.2  |
| GE 20000              | 24.0                             | 29.7     | 31.0     | 32.8     | 33.8     | 34.5     | 35.5     | 36.9     | 37.1     | 37.4     | 37.5     | 37.5    | 37.9    | 38.7    | 39.0    | 40.7  |
| GE 18000              | 24.0                             | 29.7     | 31.0     | 32.8     | 33.8     | 34.5     | 35.5     | 36.9     | 37.1     | 37.4     | 37.5     | 37.5    | 37.9    | 38.7    | 39.0    | 40.7  |
| GE 16000              | 24.0                             | 29.7     | 31.0     | 32.8     | 33.8     | 34.5     | 35.5     | 36.9     | 37.1     | 37.4     | 37.5     | 37.5    | 37.9    | 38.8    | 39.1    | 40.8  |
| GE 14000              | 24.1                             | 29.9     | 31.3     | 33.0     | 34.0     | 34.7     | 35.7     | 37.2     | 37.3     | 37.6     | 37.7     | 37.7    | 38.2    | 39.1    | 39.3    | 41.1  |
| GE 12000              | 24.8                             | 30.7     | 32.1     | 34.0     | 35.0     | 35.8     | 36.9     | 38.5     | 38.6     | 39.0     | 39.1     | 39.1    | 39.5    | 40.4    | 40.6    | 42.4  |
| GE 10000              | 25.4                             | 31.4     | 32.8     | 35.0     | 36.0     | 36.9     | 38.2     | 40.0     | 40.1     | 40.4     | 40.5     | 40.5    | 41.0    | 41.9    | 42.1    | 43.9  |
| GE 9000               | 25.7                             | 31.8     | 33.3     | 35.6     | 36.6     | 37.5     | 38.7     | 40.6     | 40.7     | 41.1     | 41.2     | 41.2    | 41.6    | 42.5    | 42.7    | 44.5  |
| GE 8000               | 25.9                             | 32.0     | 33.6     | 36.0     | 37.1     | 37.9     | 39.2     | 41.1     | 41.2     | 41.5     | 41.6     | 41.6    | 42.1    | 43.0    | 43.2    | 45.0  |
| GE 7000               | 26.6                             | 32.9     | 34.5     | 36.9     | 37.9     | 38.8     | 40.1     | 42.0     | 42.2     | 42.5     | 42.6     | 42.6    | 43.1    | 44.0    | 44.2    | 46.0  |
| GE 6000               | 27.3                             | 33.7     | 35.3     | 37.7     | 38.7     | 39.6     | 40.8     | 42.7     | 43.0     | 43.3     | 43.4     | 43.4    | 43.9    | 44.8    | 45.0    | 46.8  |
| GE 5000               | 28.7                             | 35.2     | 36.8     | 39.4     | 40.4     | 41.3     | 42.5     | 44.4     | 44.6     | 45.0     | 45.1     | 45.1    | 45.5    | 46.4    | 46.7    | 48.4  |
| GE 4500               | 29.0                             | 35.8     | 37.6     | 40.4     | 41.4     | 42.3     | 43.5     | 45.4     | 45.8     | 46.2     | 46.4     | 46.4    | 46.9    | 47.8    | 48.0    | 49.8  |
| GE 4000               | 29.8                             | 36.8     | 38.7     | 41.5     | 42.5     | 43.8     | 45.0     | 46.9     | 47.2     | 47.8     | 48.0     | 48.0    | 48.5    | 49.4    | 49.7    | 51.5  |
| GE 3500               | 31.3                             | 38.3     | 40.4     | 43.5     | 44.5     | 45.8     | 47.0     | 49.0     | 49.3     | 49.9     | 50.1     | 50.1    | 50.7    | 51.6    | 51.8    | 53.6  |
| GE 3000               | 34.0                             | 41.5     | 44.0     | 47.7     | 48.8     | 50.0     | 51.3     | 53.6     | 53.9     | 54.5     | 54.7     | 54.7    | 55.2    | 56.1    | 56.4    | 58.1  |
| GE 2500               | 36.8                             | 45.0     | 48.1     | 51.8     | 52.9     | 54.1     | 55.7     | 58.1     | 58.5     | 59.0     | 59.3     | 59.3    | 59.8    | 60.7    | 60.9    | 62.7  |
| GE 2000               | 39.5                             | 49.4     | 53.1     | 57.1     | 58.4     | 59.9     | 61.5     | 64.0     | 64.3     | 64.8     | 65.2     | 65.2    | 65.7    | 66.6    | 66.9    | 68.6  |
| GE 1600               | 40.1                             | 50.7     | 54.6     | 58.7     | 59.9     | 61.6     | 63.2     | 65.7     | 66.1     | 66.6     | 67.0     | 67.0    | 67.5    | 68.4    | 68.6    | 70.4  |
| GE 1500               | 41.7                             | 52.9     | 57.0     | 61.3     | 62.5     | 64.3     | 65.8     | 68.4     | 68.8     | 69.4     | 69.8     | 69.9    | 70.4    | 71.5    | 71.8    | 73.5  |
| GE 1200               | 43.2                             | 56.0     | 60.4     | 64.8     | 66.1     | 67.9     | 69.4     | 72.0     | 72.3     | 73.0     | 73.3     | 73.4    | 74.0    | 75.1    | 75.3    | 77.1  |
| GE 1000               | 43.6                             | 56.8     | 61.6     | 66.4     | 67.7     | 69.6     | 71.2     | 73.8     | 74.1     | 74.8     | 75.1     | 75.2    | 75.8    | 76.9    | 77.2    | 79.0  |
| GE 900                | 43.9                             | 57.6     | 62.7     | 67.6     | 69.2     | 71.2     | 72.8     | 75.3     | 75.7     | 76.3     | 76.7     | 76.8    | 77.3    | 78.5    | 78.8    | 80.6  |
| GE 800                | 44.2                             | 58.5     | 63.7     | 68.9     | 70.6     | 72.7     | 74.2     | 76.8     | 77.1     | 77.8     | 78.1     | 78.2    | 78.8    | 79.9    | 80.2    | 82.0  |
| GE 700                | 44.4                             | 59.2     | 64.8     | 70.4     | 72.5     | 74.8     | 76.5     | 79.2     | 79.7     | 80.4     | 80.7     | 80.8    | 81.4    | 82.5    | 82.8    | 84.6  |
| GE 600                | 44.6                             | 60.2     | 66.1     | 71.7     | 73.9     | 76.2     | 78.0     | 80.9     | 81.4     | 82.5     | 82.9     | 83.1    | 83.7    | 84.8    | 85.2    | 86.9  |
| GE 500                | 44.9                             | 60.8     | 67.2     | 73.4     | 75.9     | 78.5     | 80.5     | 83.5     | 83.9     | 85.2     | 85.6     | 85.8    | 86.4    | 87.5    | 87.8    | 89.6  |
| GE 400                | 44.9                             | 61.2     | 67.5     | 74.0     | 76.6     | 79.4     | 81.5     | 84.7     | 85.3     | 86.5     | 86.9     | 87.2    | 87.7    | 88.8    | 89.2    | 91.0  |
| GE 300                | 44.9                             | 61.3     | 67.7     | 74.8     | 77.8     | 80.7     | 83.1     | 86.4     | 86.9     | 88.2     | 88.6     | 89.0    | 89.5    | 90.6    | 91.0    | 92.7  |
| GE 200                | 44.9                             | 61.3     | 67.9     | 75.2     | 78.5     | 81.5     | 84.2     | 87.5     | 88.1     | 89.3     | 89.7     | 90.1    | 90.6    | 91.7    | 92.1    | 93.9  |
| GE 100                | 44.9                             | 61.3     | 67.9     | 75.4     | 78.7     | 81.8     | 84.5     | 87.9     | 88.5     | 90.0     | 90.5     | 90.8    | 91.5    | 92.6    | 93.0    | 95.5  |
| GE 0                  | 44.9                             | 61.3     | 67.9     | 75.4     | 78.7     | 81.8     | 84.5     | 87.9     | 88.5     | 90.1     | 90.6     | 91.1    | 92.0    | 93.8    | 94.4    | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 896

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0600-0800

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>49 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |  |  |
| NO CEIL               | 17.0                             | 20.3     | 21.1     | 22.3     | 22.6     | 23.0     | 23.3     | 24.2     | 24.6     | 24.6     | 24.6     | 24.7     | 25.1    | 25.9    | 26.2    | 27.8    |  |  |
| GE 20000              | 21.9                             | 25.9     | 27.0     | 28.9     | 29.6     | 29.9     | 30.2     | 31.7     | 32.4     | 32.6     | 32.7     | 32.8     | 33.1    | 34.3    | 34.8    | 36.6    |  |  |
| GE 18000              | 22.2                             | 26.1     | 27.2     | 29.1     | 29.8     | 30.1     | 30.5     | 31.9     | 32.6     | 32.8     | 32.9     | 33.0     | 33.4    | 34.5    | 35.1    | 36.8    |  |  |
| GE 16000              | 22.2                             | 26.1     | 27.2     | 29.1     | 29.8     | 30.1     | 30.5     | 31.9     | 32.6     | 32.8     | 32.9     | 33.0     | 33.4    | 34.5    | 35.1    | 36.8    |  |  |
| GE 14000              | 22.5                             | 26.4     | 27.8     | 29.7     | 30.3     | 30.7     | 31.0     | 32.5     | 33.1     | 33.4     | 33.5     | 33.6     | 33.9    | 35.1    | 35.6    | 37.4    |  |  |
| GE 12000              | 22.8                             | 27.0     | 28.4     | 30.5     | 31.1     | 31.5     | 31.9     | 33.4     | 34.0     | 34.3     | 34.4     | 34.5     | 34.8    | 35.9    | 36.5    | 38.3    |  |  |
| GE 10000              | 24.5                             | 28.9     | 30.7     | 32.7     | 33.5     | 33.9     | 34.5     | 36.1     | 36.7     | 37.2     | 37.3     | 37.4     | 37.7    | 38.9    | 39.4    | 41.2    |  |  |
| GE 9000               | 25.6                             | 30.0     | 31.8     | 33.9     | 34.7     | 35.2     | 35.7     | 37.3     | 38.0     | 38.4     | 38.5     | 38.6     | 39.0    | 40.1    | 40.6    | 42.4    |  |  |
| GE 8000               | 26.2                             | 30.6     | 32.4     | 34.5     | 35.3     | 35.7     | 36.3     | 38.0     | 38.6     | 39.1     | 39.2     | 39.3     | 39.6    | 40.8    | 41.3    | 43.1    |  |  |
| GE 7000               | 26.5                             | 30.9     | 32.7     | 34.8     | 35.7     | 36.2     | 36.7     | 38.4     | 39.1     | 39.5     | 39.6     | 39.8     | 40.1    | 41.2    | 41.8    | 43.6    |  |  |
| GE 6000               | 27.7                             | 32.1     | 33.9     | 36.3     | 37.4     | 38.0     | 38.5     | 40.2     | 40.9     | 41.3     | 41.4     | 41.5     | 41.9    | 43.0    | 43.6    | 45.4    |  |  |
| GE 5000               | 29.3                             | 34.2     | 36.2     | 38.5     | 39.8     | 40.3     | 40.9     | 42.6     | 43.2     | 43.7     | 43.8     | 43.9     | 44.2    | 45.5    | 46.0    | 47.9    |  |  |
| GE 4500               | 30.3                             | 35.4     | 37.4     | 39.8     | 41.0     | 41.5     | 42.1     | 43.8     | 44.6     | 45.0     | 45.1     | 45.2     | 45.6    | 46.8    | 47.4    | 49.3    |  |  |
| GE 4000               | 31.2                             | 37.0     | 39.1     | 41.5     | 42.8     | 43.3     | 43.9     | 45.7     | 46.5     | 46.9     | 47.0     | 47.1     | 47.5    | 48.7    | 49.3    | 51.2    |  |  |
| GE 3500               | 31.4                             | 37.5     | 39.9     | 42.3     | 43.8     | 44.3     | 45.0     | 47.1     | 47.9     | 48.4     | 48.5     | 48.6     | 48.9    | 50.2    | 50.7    | 52.6    |  |  |
| GE 3000               | 33.3                             | 40.2     | 42.8     | 45.6     | 47.0     | 47.6     | 48.3     | 50.5     | 51.3     | 51.7     | 51.8     | 52.0     | 52.3    | 53.5    | 54.1    | 56.0    |  |  |
| GE 2500               | 36.5                             | 44.3     | 47.0     | 50.3     | 51.7     | 52.4     | 53.1     | 55.3     | 56.1     | 56.6     | 56.7     | 56.8     | 57.1    | 58.3    | 58.9    | 60.8    |  |  |
| GE 2000               | 38.7                             | 47.8     | 51.2     | 54.8     | 56.3     | 57.1     | 57.8     | 60.0     | 60.8     | 61.6     | 61.7     | 61.8     | 62.2    | 63.5    | 64.1    | 66.0    |  |  |
| GE 1800               | 39.8                             | 49.3     | 52.9     | 56.4     | 58.2     | 59.0     | 59.7     | 61.9     | 62.7     | 63.6     | 63.7     | 63.8     | 64.2    | 65.5    | 66.1    | 68.1    |  |  |
| GE 1500               | 41.8                             | 51.7     | 55.4     | 59.2     | 61.0     | 61.8     | 62.6     | 64.9     | 65.7     | 66.6     | 66.7     | 66.9     | 67.2    | 68.6    | 69.2    | 71.2    |  |  |
| GE 1200               | 44.7                             | 55.9     | 59.7     | 63.7     | 65.7     | 66.5     | 67.4     | 69.8     | 70.5     | 71.6     | 71.7     | 71.8     | 72.1    | 73.6    | 74.1    | 76.1    |  |  |
| GE 1000               | 45.5                             | 57.6     | 61.5     | 66.0     | 68.4     | 69.4     | 70.3     | 72.8     | 73.6     | 74.6     | 74.7     | 74.8     | 75.1    | 76.6    | 77.2    | 79.2    |  |  |
| GE 900                | 45.8                             | 57.9     | 61.9     | 66.5     | 69.1     | 70.1     | 71.0     | 73.5     | 74.2     | 75.3     | 75.4     | 75.5     | 75.8    | 77.3    | 77.8    | 79.8    |  |  |
| GE 800                | 46.0                             | 58.9     | 63.0     | 67.7     | 70.5     | 71.6     | 72.6     | 75.5     | 76.3     | 77.3     | 77.4     | 77.5     | 77.8    | 79.3    | 79.8    | 81.9    |  |  |
| GE 700                | 46.2                             | 60.0     | 64.2     | 69.3     | 72.1     | 73.2     | 74.4     | 77.3     | 78.2     | 79.2     | 79.3     | 79.4     | 79.7    | 81.2    | 81.7    | 83.8    |  |  |
| GE 600                | 46.4                             | 60.7     | 64.8     | 70.1     | 72.9     | 74.0     | 75.3     | 78.5     | 79.5     | 80.5     | 80.6     | 80.7     | 81.1    | 82.5    | 83.1    | 85.1    |  |  |
| GE 500                | 46.6                             | 61.3     | 65.5     | 70.9     | 74.1     | 75.6     | 76.9     | 80.5     | 81.5     | 82.6     | 82.8     | 82.9     | 83.2    | 84.7    | 85.2    | 87.2    |  |  |
| GE 400                | 46.6                             | 61.6     | 66.2     | 72.0     | 75.8     | 77.7     | 79.3     | 83.3     | 84.4     | 85.6     | 85.7     | 85.8     | 86.1    | 87.6    | 88.1    | 90.1    |  |  |
| GE 300                | 46.6                             | 62.0     | 66.6     | 72.8     | 76.9     | 78.8     | 80.6     | 84.9     | 86.0     | 87.1     | 87.2     | 87.3     | 87.7    | 89.1    | 89.7    | 91.7    |  |  |
| GE 200                | 46.6                             | 62.0     | 66.6     | 72.8     | 77.3     | 79.4     | 81.2     | 85.6     | 86.8     | 88.1     | 88.2     | 88.5     | 88.8    | 90.3    | 90.8    | 92.8    |  |  |
| GE 100                | 46.6                             | 62.0     | 66.6     | 72.8     | 77.3     | 79.5     | 81.5     | 86.0     | 87.3     | 88.7     | 88.9     | 89.4     | 89.8    | 91.4    | 91.9    | 94.4    |  |  |
| GE 0                  | 46.6                             | 62.0     | 66.6     | 72.8     | 77.3     | 79.6     | 81.6     | 86.1     | 87.5     | 89.0     | 89.2     | 89.7     | 90.4    | 92.8    | 93.6    | 100.0   |  |  |

TOTAL NUMBER OF OBSERVATIONS: 893

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS/LIST: 0900-1100

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |  |  |
| NO CEIL               | 16.9                             | 20.9     | 21.3     | 22.4     | 23.2     | 24.0     | 24.9     | 25.4     | 25.6     | 25.8     | 25.8     | 25.8     | 25.8    | 26.1    | 26.2    | 26.9    |  |  |
| GE 20000              | 24.1                             | 30.4     | 30.9     | 32.6     | 33.7     | 34.6     | 35.9     | 36.8     | 37.0     | 37.2     | 37.2     | 37.3     | 37.7    | 37.8    | 38.6    |         |  |  |
| GE 18000              | 24.2                             | 30.5     | 31.1     | 32.7     | 33.9     | 34.8     | 36.0     | 36.9     | 37.1     | 37.3     | 37.3     | 37.4     | 37.8    | 37.9    | 38.7    |         |  |  |
| GE 16000              | 24.2                             | 30.7     | 31.3     | 33.0     | 34.1     | 35.0     | 36.2     | 37.1     | 37.3     | 37.6     | 37.6     | 37.7     | 38.0    | 38.1    | 38.9    |         |  |  |
| GE 14000              | 24.6                             | 31.2     | 31.8     | 33.6     | 34.9     | 35.8     | 37.0     | 37.9     | 38.1     | 38.3     | 38.3     | 38.5     | 38.8    | 38.9    | 39.7    |         |  |  |
| GE 12000              | 25.7                             | 32.3     | 33.0     | 34.9     | 36.2     | 37.2     | 38.5     | 39.5     | 39.7     | 39.9     | 39.9     | 39.9     | 40.0    | 40.4    | 40.5    | 41.3    |  |  |
| GE 10000              | 27.1                             | 34.0     | 34.8     | 36.7     | 38.0     | 39.0     | 40.2     | 41.3     | 41.5     | 41.7     | 41.7     | 41.8     | 42.2    | 42.3    | 43.0    |         |  |  |
| GE 9000               | 27.9                             | 34.9     | 35.8     | 37.7     | 39.0     | 40.0     | 41.3     | 42.3     | 42.5     | 42.7     | 42.7     | 42.7     | 42.8    | 43.2    | 43.3    | 44.1    |  |  |
| GE 8000               | 28.4                             | 35.4     | 36.3     | 38.2     | 39.6     | 40.6     | 41.8     | 42.8     | 43.0     | 43.3     | 43.3     | 43.3     | 43.4    | 43.7    | 43.8    | 44.6    |  |  |
| GE 7000               | 28.6                             | 35.8     | 36.7     | 38.6     | 39.9     | 40.9     | 42.2     | 43.3     | 43.5     | 43.8     | 43.8     | 43.8     | 43.9    | 44.3    | 44.4    | 45.2    |  |  |
| GE 6000               | 29.6                             | 36.9     | 37.9     | 39.8     | 41.0     | 42.2     | 43.4     | 44.5     | 44.7     | 45.1     | 45.1     | 45.1     | 45.2    | 45.5    | 45.6    | 46.4    |  |  |
| GE 5000               | 30.5                             | 38.6     | 39.6     | 41.6     | 42.9     | 43.9     | 45.2     | 46.3     | 46.5     | 46.9     | 46.9     | 46.9     | 47.0    | 47.3    | 47.4    | 48.2    |  |  |
| GE 4500               | 31.4                             | 40.2     | 41.3     | 43.5     | 45.0     | 46.0     | 47.2     | 48.3     | 48.5     | 48.9     | 48.9     | 48.9     | 49.0    | 49.3    | 49.4    | 50.2    |  |  |
| GE 4000               | 32.6                             | 42.4     | 43.6     | 46.0     | 47.5     | 48.7     | 49.9     | 51.2     | 51.5     | 51.9     | 51.9     | 51.9     | 52.0    | 52.4    | 52.5    | 53.3    |  |  |
| GE 3500               | 34.1                             | 44.5     | 45.7     | 48.1     | 49.7     | 50.8     | 52.0     | 53.4     | 53.6     | 54.0     | 54.0     | 54.0     | 54.1    | 54.5    | 54.6    | 55.4    |  |  |
| GE 3000               | 36.7                             | 47.6     | 49.0     | 51.5     | 53.1     | 54.4     | 55.6     | 57.1     | 57.3     | 57.7     | 57.7     | 57.7     | 57.8    | 58.2    | 58.3    | 59.1    |  |  |
| GE 2500               | 38.3                             | 50.2     | 51.7     | 54.6     | 56.5     | 58.0     | 59.2     | 60.7     | 60.9     | 61.3     | 61.3     | 61.3     | 61.4    | 61.8    | 61.9    | 62.7    |  |  |
| GE 2000               | 41.1                             | 54.3     | 55.9     | 59.3     | 61.2     | 62.7     | 64.0     | 65.8     | 66.0     | 66.5     | 66.5     | 66.6     | 66.7    | 67.0    | 67.2    | 67.9    |  |  |
| GE 1800               | 42.3                             | 55.7     | 57.5     | 61.1     | 63.0     | 64.5     | 65.9     | 67.7     | 67.9     | 68.4     | 68.4     | 68.5     | 68.6    | 68.9    | 69.1    | 69.8    |  |  |
| GE 1500               | 44.2                             | 58.1     | 60.2     | 64.1     | 66.0     | 67.5     | 68.9     | 70.7     | 71.0     | 71.4     | 71.4     | 71.5     | 71.6    | 72.0    | 72.1    | 72.9    |  |  |
| GE 1200               | 46.5                             | 61.5     | 64.0     | 68.6     | 71.0     | 72.4     | 73.9     | 75.9     | 76.1     | 76.7     | 76.7     | 76.8     | 76.9    | 77.2    | 77.4    | 78.1    |  |  |
| GE 1000               | 47.3                             | 62.8     | 65.4     | 70.1     | 72.4     | 73.9     | 75.4     | 77.5     | 77.7     | 78.3     | 78.3     | 78.4     | 78.5    | 78.8    | 78.9    | 79.7    |  |  |
| GE 900                | 47.8                             | 63.8     | 66.5     | 71.4     | 74.0     | 75.6     | 77.2     | 79.5     | 79.8     | 80.4     | 80.4     | 80.5     | 80.6    | 80.9    | 81.1    | 81.8    |  |  |
| GE 800                | 48.0                             | 64.7     | 67.6     | 72.9     | 75.7     | 77.5     | 79.4     | 81.7     | 82.1     | 82.6     | 82.6     | 82.7     | 82.8    | 83.2    | 83.3    | 84.1    |  |  |
| GE 700                | 48.3                             | 65.5     | 68.7     | 74.2     | 77.0     | 78.8     | 80.7     | 83.2     | 83.5     | 84.1     | 84.1     | 84.2     | 84.3    | 84.6    | 84.8    | 85.5    |  |  |
| GE 600                | 48.4                             | 66.7     | 70.1     | 75.8     | 79.0     | 81.1     | 83.1     | 85.7     | 86.1     | 86.8     | 86.8     | 86.9     | 87.0    | 87.3    | 87.4    | 88.2    |  |  |
| GE 500                | 48.5                             | 67.2     | 70.6     | 76.5     | 80.2     | 82.2     | 84.2     | 87.0     | 87.4     | 88.1     | 88.1     | 88.2     | 88.3    | 88.7    | 88.8    | 89.6    |  |  |
| GE 400                | 48.5                             | 67.3     | 70.9     | 76.7     | 80.9     | 83.2     | 85.2     | 88.0     | 88.6     | 89.2     | 89.2     | 89.3     | 89.6    | 89.9    | 90.0    | 90.8    |  |  |
| GE 300                | 48.7                             | 67.6     | 71.3     | 77.1     | 81.5     | 84.0     | 86.1     | 89.1     | 89.7     | 90.4     | 90.4     | 90.5     | 90.7    | 91.0    | 91.1    | 91.9    |  |  |
| GE 200                | 48.7                             | 67.6     | 71.4     | 77.2     | 82.7     | 84.5     | 86.9     | 90.2     | 91.1     | 91.9     | 92.2     | 92.3     | 92.5    | 92.8    | 92.9    | 93.7    |  |  |
| GE 100                | 48.7                             | 67.6     | 71.4     | 77.4     | 82.3     | 84.9     | 87.4     | 90.8     | 91.9     | 93.0     | 93.5     | 93.7     | 93.9    | 94.4    | 94.6    | 96.2    |  |  |
| GE 0                  | 48.7                             | 67.6     | 71.4     | 77.4     | 82.3     | 84.9     | 87.4     | 90.8     | 91.9     | 93.0     | 93.5     | 93.8     | 94.4    | 95.0    | 95.3    | 100.0   |  |  |

TOTAL NUMBER OF OBSERVATIONS: 892

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 1200-1400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |  |
| NO CЕIL               | 18.2                             | 21.3     | 21.4     | 22.6     | 23.0     | 23.1     | 23.1     | 23.5     | 23.5     | 23.5     | 23.5     | 23.6    | 23.7    | 23.9    | 23.9    | 24.1  |  |  |
| GE 20000              | 27.5                             | 33.7     | 34.0     | 35.4     | 36.4     | 36.5     | 36.6     | 36.9     | 36.9     | 36.9     | 36.9     | 37.0    | 37.1    | 37.4    | 37.4    | 37.6  |  |  |
| GE 18000              | 27.8                             | 34.0     | 34.3     | 35.7     | 36.7     | 36.8     | 36.9     | 37.3     | 37.3     | 37.3     | 37.3     | 37.4    | 37.5    | 37.7    | 37.7    | 37.9  |  |  |
| GE 16000              | 27.8                             | 34.1     | 34.5     | 35.8     | 36.8     | 36.9     | 37.0     | 37.4     | 37.4     | 37.4     | 37.4     | 37.5    | 37.6    | 37.8    | 37.8    | 38.0  |  |  |
| GE 14000              | 28.6                             | 35.1     | 35.5     | 36.8     | 37.8     | 37.9     | 38.0     | 38.4     | 38.4     | 38.4     | 38.4     | 38.5    | 38.6    | 38.8    | 38.8    | 39.1  |  |  |
| GE 12000              | 29.5                             | 36.3     | 36.6     | 37.9     | 39.1     | 39.2     | 39.3     | 39.6     | 39.6     | 39.6     | 39.6     | 39.7    | 39.8    | 40.1    | 40.1    | 40.3  |  |  |
| GE 10000              | 31.1                             | 38.5     | 38.8     | 40.3     | 41.5     | 41.6     | 41.9     | 42.2     | 42.2     | 42.2     | 42.2     | 42.3    | 42.6    | 42.6    | 42.6    | 43.0  |  |  |
| GE 9000               | 31.8                             | 39.4     | 39.7     | 41.3     | 42.5     | 42.6     | 43.0     | 43.3     | 43.3     | 43.3     | 43.3     | 43.4    | 43.5    | 43.8    | 43.8    | 44.1  |  |  |
| GE 8000               | 32.1                             | 39.7     | 40.1     | 41.6     | 42.9     | 43.0     | 43.3     | 43.7     | 43.7     | 43.7     | 43.7     | 43.8    | 43.9    | 44.1    | 44.1    | 44.4  |  |  |
| GE 7000               | 32.4                             | 40.2     | 40.5     | 42.1     | 43.3     | 43.4     | 43.8     | 44.1     | 44.1     | 44.2     | 44.2     | 44.3    | 44.4    | 44.7    | 44.7    | 45.0  |  |  |
| GE 6000               | 34.1                             | 42.0     | 42.3     | 43.9     | 45.1     | 45.2     | 45.6     | 45.9     | 45.9     | 46.0     | 46.0     | 46.1    | 46.2    | 46.5    | 46.5    | 46.8  |  |  |
| GE 5000               | 35.2                             | 44.2     | 44.6     | 46.1     | 47.4     | 47.5     | 47.8     | 48.4     | 48.4     | 48.5     | 48.5     | 48.6    | 48.7    | 48.9    | 48.9    | 49.3  |  |  |
| GE 4500               | 37.7                             | 47.3     | 47.7     | 49.3     | 50.6     | 50.7     | 51.1     | 51.6     | 51.6     | 51.7     | 51.7     | 51.9    | 52.0    | 52.2    | 52.2    | 52.5  |  |  |
| GE 4000               | 40.0                             | 50.1     | 50.5     | 52.2     | 53.6     | 53.8     | 54.1     | 54.7     | 54.7     | 54.8     | 54.8     | 54.9    | 55.0    | 55.2    | 55.2    | 55.6  |  |  |
| GE 3500               | 40.5                             | 50.7     | 51.2     | 53.0     | 54.4     | 54.5     | 54.9     | 55.4     | 55.4     | 55.6     | 55.6     | 55.7    | 55.8    | 56.0    | 56.0    | 56.3  |  |  |
| GE 3000               | 43.1                             | 53.8     | 54.5     | 56.6     | 58.0     | 58.1     | 58.5     | 59.0     | 59.0     | 59.1     | 59.1     | 59.3    | 59.4    | 59.6    | 59.6    | 59.9  |  |  |
| GE 2500               | 45.8                             | 57.5     | 58.4     | 60.5     | 62.0     | 62.1     | 62.4     | 63.1     | 63.1     | 63.2     | 63.2     | 63.3    | 63.4    | 63.6    | 63.6    | 64.0  |  |  |
| GE 2000               | 49.3                             | 62.5     | 63.4     | 65.8     | 67.6     | 67.7     | 68.1     | 68.9     | 68.9     | 69.0     | 69.0     | 69.1    | 69.2    | 69.5    | 69.5    | 69.8  |  |  |
| GE 1800               | 50.6                             | 64.5     | 65.4     | 68.0     | 69.9     | 70.1     | 70.7     | 71.5     | 71.5     | 71.6     | 71.6     | 71.7    | 71.8    | 72.1    | 72.1    | 72.4  |  |  |
| GE 1500               | 51.7                             | 66.4     | 67.5     | 70.1     | 72.1     | 72.3     | 73.1     | 73.8     | 73.8     | 74.0     | 74.0     | 74.1    | 74.2    | 74.4    | 74.4    | 74.7  |  |  |
| GE 1200               | 54.2                             | 70.8     | 72.3     | 75.5     | 77.8     | 78.0     | 79.0     | 79.8     | 79.8     | 79.9     | 79.9     | 80.0    | 80.1    | 80.4    | 80.5    | 80.8  |  |  |
| GE 1000               | 54.7                             | 72.6     | 74.3     | 77.9     | 80.6     | 80.8     | 81.8     | 82.7     | 82.7     | 82.8     | 82.8     | 82.9    | 83.1    | 83.3    | 83.4    | 83.7  |  |  |
| GE 900                | 54.9                             | 73.0     | 74.6     | 78.6     | 81.5     | 91.7     | 82.7     | 83.7     | 83.7     | 83.8     | 83.8     | 84.0    | 84.1    | 84.3    | 84.4    | 84.7  |  |  |
| GE 800                | 55.3                             | 74.3     | 76.3     | 80.5     | 83.6     | 93.8     | 84.8     | 85.9     | 86.0     | 86.1     | 86.2     | 86.3    | 86.5    | 86.6    | 87.0    |       |  |  |
| GE 700                | 55.9                             | 75.9     | 78.1     | 82.4     | 86.0     | 96.3     | 87.3     | 88.3     | 88.4     | 88.6     | 88.6     | 88.7    | 88.8    | 89.0    | 89.1    | 89.5  |  |  |
| GE 600                | 56.3                             | 77.0     | 79.3     | 83.6     | 87.4     | 87.9     | 89.0     | 90.2     | 90.3     | 90.5     | 90.5     | 90.6    | 90.7    | 90.9    | 91.0    | 91.4  |  |  |
| GE 500                | 56.6                             | 77.8     | 80.2     | 84.6     | 88.7     | 89.1     | 90.5     | 92.0     | 92.1     | 92.3     | 92.3     | 92.4    | 92.5    | 92.7    | 92.8    | 93.2  |  |  |
| GE 400                | 56.6                             | 78.1     | 80.6     | 85.0     | 89.2     | 91.6     | 93.5     | 93.7     | 93.8     | 93.8     | 93.9     | 94.1    | 94.3    | 94.4    | 94.7    |       |  |  |
| GE 300                | 56.6                             | 78.1     | 80.6     | 85.1     | 89.5     | 90.1     | 91.9     | 93.9     | 94.2     | 94.3     | 94.3     | 94.4    | 94.5    | 94.7    | 94.8    | 95.2  |  |  |
| GE 200                | 56.6                             | 78.1     | 80.6     | 85.2     | 89.8     | 90.5     | 92.5     | 94.6     | 95.2     | 95.7     | 95.7     | 96.0    | 96.1    | 96.3    | 96.4    | 96.9  |  |  |
| GE 100                | 56.6                             | 78.1     | 80.6     | 85.2     | 89.9     | 90.6     | 92.6     | 94.7     | 95.3     | 96.2     | 96.2     | 96.5    | 97.1    | 97.5    | 97.6    | 98.7  |  |  |
| GE 0                  | 56.6                             | 78.1     | 80.6     | 85.2     | 89.9     | 90.6     | 92.6     | 94.7     | 95.3     | 96.2     | 96.2     | 96.5    | 97.2    | 97.9    | 98.0    | 100.0 |  |  |

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURPENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 1500-1700

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |         |         |         |         |      |       |      |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|-------|------|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>30 | GE<br>20 | GE<br>16 | GE<br>12 | GT<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |       |      |  |
| NO CEIL               | 19.0                             | 21.4     | 22.4     | 23.3     | 23.6     | 23.7     | 23.9     | 24.0     | 24.1     | 24.2     | 24.3    | 24.3    | 24.3    | 24.3    | 24.3 | 24.3  | 24.5 |  |
| GE 20000              | 26.0                             | 31.2     | 32.6     | 34.0     | 34.6     | 34.7     | 34.8     | 34.9     | 35.3     | 35.4     | 35.5    | 35.5    | 35.5    | 35.5    | 35.5 | 35.5  | 35.7 |  |
| GE 18000              | 26.1                             | 31.5     | 32.8     | 34.3     | 34.5     | 34.9     | 35.1     | 35.2     | 35.5     | 35.6     | 35.7    | 35.7    | 35.7    | 35.7    | 35.7 | 35.7  | 35.9 |  |
| GE 16000              | 26.2                             | 31.6     | 32.9     | 34.4     | 34.9     | 35.1     | 35.2     | 35.3     | 35.6     | 35.7     | 35.8    | 35.8    | 35.8    | 35.8    | 35.8 | 35.8  | 36.1 |  |
| GE 14000              | 27.1                             | 32.6     | 34.0     | 35.5     | 36.1     | 36.2     | 36.3     | 36.4     | 36.7     | 36.8     | 37.0    | 37.0    | 37.0    | 37.0    | 37.0 | 37.0  | 37.2 |  |
| GE 12000              | 27.9                             | 33.8     | 35.4     | 37.2     | 37.8     | 38.0     | 38.1     | 38.2     | 38.5     | 38.6     | 38.7    | 38.9    | 38.9    | 38.9    | 38.9 | 38.9  | 39.1 |  |
| GE 10000              | 29.5                             | 35.4     | 37.0     | 38.9     | 39.9     | 40.1     | 40.2     | 40.3     | 40.6     | 40.9     | 40.9    | 41.0    | 41.1    | 41.1    | 41.1 | 41.1  |      |  |
| GE 9000               | 30.2                             | 36.7     | 38.4     | 40.5     | 41.7     | 41.9     | 42.0     | 42.1     | 42.4     | 42.6     | 42.7    | 42.8    | 42.9    | 42.9    | 42.9 | 43.1  |      |  |
| GE 8000               | 30.7                             | 37.2     | 38.9     | 41.0     | 42.1     | 42.3     | 42.4     | 42.6     | 42.9     | 43.0     | 43.1    | 43.1    | 43.2    | 43.3    | 43.3 | 43.3  | 43.6 |  |
| GE 7000               | 30.8                             | 37.3     | 39.0     | 41.2     | 42.3     | 42.6     | 42.7     | 42.8     | 43.1     | 43.2     | 43.3    | 43.3    | 43.4    | 43.6    | 43.6 | 43.8  |      |  |
| GE 6000               | 31.1                             | 38.1     | 39.8     | 42.0     | 43.2     | 43.4     | 43.6     | 43.7     | 44.0     | 44.1     | 44.2    | 44.3    | 44.5    | 44.5    | 44.5 | 44.7  |      |  |
| GE 5000               | 32.3                             | 40.1     | 41.8     | 44.0     | 45.7     | 45.5     | 45.6     | 45.7     | 46.0     | 46.1     | 46.2    | 46.4    | 46.5    | 46.5    | 46.5 | 46.7  |      |  |
| GE 4500               | 34.2                             | 42.6     | 44.2     | 46.5     | 47.7     | 47.9     | 48.0     | 48.3     | 48.6     | 48.7     | 48.8    | 48.8    | 49.0    | 49.0    | 49.0 | 49.3  |      |  |
| GE 4000               | 36.3                             | 45.5     | 47.3     | 49.6     | 51.1     | 51.3     | 51.4     | 51.6     | 52.0     | 52.1     | 52.2    | 52.3    | 52.4    | 52.4    | 52.4 | 52.6  |      |  |
| GE 3500               | 37.5                             | 47.0     | 48.9     | 51.4     | 52.9     | 53.1     | 53.2     | 53.5     | 54.0     | 54.3     | 54.4    | 54.5    | 54.6    | 54.6    | 54.6 | 54.9  |      |  |
| GE 3000               | 40.0                             | 50.3     | 52.5     | 55.3     | 56.9     | 57.1     | 57.2     | 57.7     | 58.1     | 58.5     | 58.6    | 58.6    | 58.7    | 58.8    | 58.8 | 59.0  |      |  |
| GE 2500               | 42.7                             | 54.8     | 57.2     | 60.1     | 61.9     | 62.2     | 62.4     | 62.9     | 63.4     | 63.7     | 63.8    | 63.9    | 64.1    | 64.1    | 64.1 | 64.3  |      |  |
| GE 2000               | 45.0                             | 58.7     | 61.3     | 64.2     | 66.2     | 66.5     | 66.9     | 67.9     | 68.4     | 68.9     | 69.0    | 69.0    | 69.1    | 69.2    | 69.2 | 69.4  |      |  |
| GF 18000              | 46.1                             | 60.1     | 62.6     | 66.0     | 68.1     | 68.5     | 69.0     | 70.0     | 70.7     | 71.1     | 71.2    | 71.3    | 71.4    | 71.4    | 71.4 | 71.7  |      |  |
| GF 15000              | 47.0                             | 62.7     | 65.5     | 68.8     | 71.2     | 71.7     | 72.2     | 73.2     | 73.9     | 74.6     | 74.5    | 74.6    | 74.7    | 74.7    | 74.7 | 74.9  |      |  |
| GE 12000              | 49.9                             | 66.5     | 69.5     | 73.2     | 75.0     | 76.5     | 77.2     | 78.2     | 78.9     | 79.0     | 79.5    | 79.5    | 79.6    | 79.7    | 79.7 | 80.0  |      |  |
| GF 10000              | 51.2                             | 69.2     | 72.7     | 76.9     | 79.7     | 80.4     | 81.1     | 82.4     | 83.4     | 83.9     | 84.0    | 84.0    | 84.1    | 84.2    | 84.2 | 84.4  |      |  |
| GF 9000               | 51.4                             | 70.0     | 74.0     | 78.6     | 81.4     | 82.2     | 83.0     | 84.3     | 85.3     | 85.8     | 85.9    | 85.9    | 86.0    | 86.1    | 86.1 | 86.3  |      |  |
| GE 8000               | 51.4                             | 70.8     | 74.9     | 80.1     | 83.2     | 84.0     | 84.8     | 86.3     | 87.3     | 87.8     | 87.9    | 87.9    | 88.0    | 88.1    | 88.1 | 88.4  |      |  |
| GF 7000               | 51.7                             | 71.4     | 75.9     | 81.1     | 84.4     | 85.3     | 86.1     | 87.9     | 88.9     | 89.4     | 89.5    | 89.5    | 89.6    | 89.7    | 89.7 | 89.9  |      |  |
| GF 6000               | 51.8                             | 71.9     | 76.8     | 82.3     | 85.9     | 87.0     | 87.9     | 89.7     | 90.9     | 91.4     | 91.5    | 91.5    | 91.6    | 91.7    | 91.7 | 91.9  |      |  |
| GE 5000               | 51.8                             | 72.1     | 77.4     | 83.1     | 87.0     | 88.4     | 89.2     | 91.4     | 92.6     | 93.1     | 93.2    | 93.2    | 93.3    | 93.4    | 93.4 | 93.6  |      |  |
| GE 4000               | 51.8                             | 72.5     | 77.7     | 83.7     | 87.9     | 89.5     | 90.5     | 92.7     | 94.1     | 94.5     | 94.6    | 94.6    | 94.7    | 94.8    | 94.8 | 95.1  |      |  |
| GE 3000               | 51.8                             | 72.6     | 77.8     | 84.0     | 88.5     | 90.3     | 91.4     | 94.3     | 95.7     | 95.7     | 95.9    | 95.9    | 96.0    | 96.1    | 96.1 | 96.3  |      |  |
| GE 2000               | 51.8                             | 72.6     | 77.8     | 84.0     | 88.5     | 90.3     | 91.4     | 94.3     | 95.7     | 96.5     | 96.6    | 96.6    | 96.8    | 96.9    | 96.9 | 97.1  |      |  |
| GE 1000               | 51.8                             | 72.6     | 77.8     | 84.0     | 88.4     | 90.5     | 91.6     | 94.7     | 96.9     | 97.2     | 97.3    | 97.3    | 97.4    | 97.5    | 97.5 | 97.8  |      |  |
| GE 01                 | 51.8                             | 72.6     | 77.8     | 84.0     | 88.5     | 90.5     | 91.6     | 94.7     | 96.4     | 97.2     | 97.3    | 97.5    | 97.6    | 98.1    | 98.1 | 100.0 |      |  |

TOTAL NUMBER OF OBSERVATIONS: 893

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: D37460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS/STATION: 1800-2000

| CEILING  |      | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |  |
|----------|------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|--|
| IN       | FEET | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |  |  |  |
| NO CESTL | 17.7 | 22.8                             | 23.7     | 25.2     | 25.5     | 26.3     | 26.7     | 26.9     | 27.1     | 27.4     | 27.5     | 27.5     | 27.6    | 27.8    | 27.9    | 28.0    |  |  |  |
| GE 20000 | 23.5 | 30.8                             | 32.1     | 33.8     | 34.8     | 35.6     | 35.9     | 36.2     | 36.5     | 36.8     | 37.0     | 37.0     | 37.2    | 37.3    | 37.4    | 37.4    |  |  |  |
| GE 18000 | 23.5 | 30.8                             | 32.1     | 33.8     | 34.8     | 35.6     | 35.9     | 36.2     | 36.5     | 36.8     | 37.0     | 37.0     | 37.2    | 37.3    | 37.4    | 37.4    |  |  |  |
| GE 16000 | 23.5 | 30.8                             | 32.1     | 33.8     | 34.8     | 35.6     | 35.9     | 36.2     | 36.5     | 36.8     | 37.0     | 37.0     | 37.2    | 37.3    | 37.4    | 37.4    |  |  |  |
| GE 14000 | 24.5 | 31.8                             | 33.4     | 35.3     | 36.3     | 37.1     | 37.4     | 37.6     | 38.0     | 38.3     | 38.4     | 38.4     | 38.6    | 38.6    | 38.7    | 38.9    |  |  |  |
| GE 12000 | 25.3 | 32.9                             | 34.7     | 36.7     | 37.9     | 38.7     | 39.1     | 39.5     | 39.8     | 40.0     | 40.1     | 40.1     | 40.3    | 40.3    | 40.4    | 40.5    |  |  |  |
| GE 10000 | 26.4 | 34.0                             | 35.9     | 38.3     | 39.5     | 40.4     | 40.8     | 41.0     | 41.3     | 41.7     | 41.8     | 41.8     | 42.0    | 42.0    | 42.1    | 42.2    |  |  |  |
| GE 9000  | 26.8 | 35.1                             | 37.0     | 39.4     | 40.8     | 41.9     | 42.2     | 42.6     | 42.9     | 43.2     | 43.3     | 43.3     | 43.6    | 43.6    | 43.7    | 43.8    |  |  |  |
| GE 8000  | 27.0 | 35.3                             | 37.3     | 39.8     | 41.1     | 42.2     | 42.7     | 43.0     | 43.3     | 43.7     | 43.8     | 43.8     | 44.0    | 44.0    | 44.1    | 44.2    |  |  |  |
| GE 7000  | 27.2 | 35.5                             | 37.5     | 40.2     | 41.5     | 42.7     | 43.1     | 43.4     | 43.8     | 44.1     | 44.2     | 44.2     | 44.5    | 44.5    | 44.6    | 44.7    |  |  |  |
| GE 6000  | 27.4 | 36.1                             | 38.1     | 40.9     | 42.2     | 43.3     | 43.8     | 44.1     | 44.5     | 44.8     | 44.9     | 44.9     | 45.1    | 45.1    | 45.2    | 45.4    |  |  |  |
| GE 5000  | 28.2 | 37.5                             | 39.6     | 42.6     | 43.9     | 45.0     | 45.5     | 45.8     | 46.1     | 46.6     | 46.7     | 46.7     | 46.9    | 46.9    | 47.0    | 47.1    |  |  |  |
| GE 4500  | 29.2 | 39.0                             | 41.3     | 44.3     | 45.7     | 46.9     | 47.4     | 47.7     | 48.0     | 48.7     | 48.8     | 48.8     | 49.0    | 49.0    | 49.2    | 49.3    |  |  |  |
| GE 4000  | 30.5 | 40.4                             | 42.8     | 45.8     | 47.3     | 48.5     | 48.9     | 49.3     | 49.6     | 50.3     | 50.4     | 50.4     | 50.6    | 50.6    | 50.7    | 50.8    |  |  |  |
| GE 3500  | 31.5 | 41.7                             | 44.1     | 47.5     | 49.0     | 50.3     | 50.7     | 51.2     | 51.5     | 52.3     | 52.4     | 52.4     | 52.6    | 52.6    | 52.7    | 52.9    |  |  |  |
| GE 3000  | 34.2 | 45.9                             | 48.2     | 52.1     | 53.6     | 54.9     | 55.3     | 55.8     | 56.1     | 56.9     | 57.0     | 57.0     | 57.2    | 57.3    | 57.4    | 57.6    |  |  |  |
| GE 2500  | 36.6 | 49.2                             | 52.1     | 56.1     | 57.9     | 59.0     | 59.5     | 59.9     | 60.2     | 61.0     | 61.1     | 61.1     | 61.4    | 61.5    | 61.6    | 61.8    |  |  |  |
| GE 2000  | 38.2 | 52.3                             | 55.5     | 60.2     | 62.7     | 63.5     | 64.1     | 64.5     | 64.8     | 65.6     | 65.7     | 65.7     | 66.0    | 66.1    | 66.2    | 66.4    |  |  |  |
| GE 1800  | 39.5 | 54.6                             | 58.2     | 63.3     | 65.4     | 66.7     | 67.3     | 67.7     | 68.1     | 68.9     | 69.0     | 69.0     | 69.2    | 69.3    | 69.4    | 69.7    |  |  |  |
| GE 1500  | 40.5 | 56.9                             | 60.5     | 66.0     | 68.1     | 69.8     | 70.3     | 70.8     | 71.2     | 72.0     | 72.1     | 72.1     | 72.3    | 72.5    | 72.6    | 72.9    |  |  |  |
| GE 1200  | 42.0 | 59.9                             | 63.9     | 69.7     | 72.5     | 74.2     | 74.8     | 75.3     | 75.7     | 76.5     | 76.6     | 76.6     | 76.8    | 76.9    | 77.0    | 77.4    |  |  |  |
| GE 1000  | 42.6 | 62.4                             | 66.4     | 72.7     | 75.9     | 77.7     | 78.4     | 78.8     | 79.3     | 80.2     | 80.3     | 80.3     | 80.5    | 80.6    | 80.7    | 81.1    |  |  |  |
| GE 900   | 42.9 | 62.9                             | 67.2     | 73.6     | 77.0     | 78.8     | 79.5     | 80.2     | 80.6     | 81.5     | 81.5     | 81.6     | 81.9    | 82.0    | 82.1    | 82.4    |  |  |  |
| GE 800   | 43.1 | 63.7                             | 68.4     | 75.0     | 78.7     | 80.5     | 81.2     | 81.9     | 82.4     | 83.3     | 83.4     | 83.4     | 83.7    | 83.8    | 83.9    | 84.2    |  |  |  |
| GE 700   | 43.3 | 64.6                             | 69.7     | 76.4     | 80.5     | 82.6     | 83.4     | 84.2     | 84.8     | 85.7     | 85.8     | 85.8     | 86.1    | 86.2    | 86.3    | 86.7    |  |  |  |
| GE 600   | 43.9 | 65.5                             | 70.7     | 77.6     | 82.2     | 84.5     | 85.3     | 86.3     | 87.1     | 88.0     | 88.1     | 88.1     | 88.5    | 88.6    | 88.7    | 89.0    |  |  |  |
| GE 500   | 43.6 | 65.8                             | 71.1     | 78.1     | 82.0     | 85.2     | 86.1     | 87.7     | 88.6     | 89.5     | 89.6     | 89.6     | 89.9    | 90.0    | 90.1    | 90.5    |  |  |  |
| GE 400   | 43.8 | 66.4                             | 71.7     | 78.8     | 83.7     | 86.3     | 87.5     | 89.5     | 90.5     | 91.4     | 91.5     | 91.5     | 91.8    | 91.9    | 92.0    | 92.4    |  |  |  |
| GE 300   | 43.8 | 66.7                             | 72.1     | 79.8     | 84.9     | 87.9     | 89.8     | 92.7     | 94.1     | 95.3     | 95.5     | 95.5     | 95.9    | 96.0    | 96.1    | 96.5    |  |  |  |
| GE 200   | 43.8 | 66.7                             | 72.1     | 79.8     | 84.9     | 88.1     | 90.0     | 93.2     | 94.7     | 96.1     | 96.5     | 96.5     | 96.8    | 97.0    | 97.1    | 97.5    |  |  |  |
| GE 0     | 43.8 | 66.7                             | 72.1     | 79.8     | 84.9     | 88.1     | 90.0     | 93.2     | 94.7     | 96.1     | 96.5     | 96.5     | 96.9    | 97.4    | 97.8    | 100.0   |  |  |  |

TOTAL NUMBER OF OBSERVATIONS: 893

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 2100-2300

| CEILING  |       |      |      |      |      |      |      |      |      |      |      | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |       |    |    |  |  |  |  |
|----------|-------|------|------|------|------|------|------|------|------|------|------|----------------------------------|------|------|------|------|------|-------|----|----|--|--|--|--|
| IN       | 1     | GT   | GE                               | GE   | GE   | GE   | GE   | GE   | GE    | GE | GT |  |  |  |  |
| FEET     | 1     | 160  | 90   | 80   | 60   | 40   | 32   | 24   | 20   | 16   | 12   | 10                               | 8    | 6    | 5    | 4    | 3    | 2     | 1  | 0  |  |  |  |  |
| NO CESTL | 1     | 18.1 | 23.9 | 25.8 | 26.6 | 27.3 | 29.0 | 29.5 | 30.5 | 31.0 | 31.9 | 31.9                             | 31.9 | 32.0 | 32.1 | 32.6 | 33.1 |       |    |    |  |  |  |  |
| GE       | 20000 | 22.0 | 29.0 | 31.0 | 32.6 | 33.0 | 35.6 | 36.3 | 37.6 | 38.0 | 38.9 | 38.9                             | 38.9 | 39.0 | 39.1 | 39.6 | 40.1 |       |    |    |  |  |  |  |
| GE       | 18000 | 22.0 | 29.0 | 31.0 | 32.6 | 33.0 | 35.6 | 36.3 | 37.6 | 38.0 | 38.9 | 38.9                             | 38.9 | 39.0 | 39.1 | 39.6 | 40.1 |       |    |    |  |  |  |  |
| GF       | 16000 | 22.0 | 29.0 | 31.0 | 32.6 | 33.0 | 35.6 | 36.3 | 37.6 | 38.0 | 38.9 | 38.9                             | 38.9 | 39.0 | 39.1 | 39.6 | 40.1 |       |    |    |  |  |  |  |
| GE       | 14000 | 22.0 | 29.0 | 29.2 | 31.3 | 32.9 | 34.1 | 36.1 | 36.7 | 37.9 | 38.4 | 39.2                             | 39.2 | 39.2 | 39.5 | 39.9 | 40.5 |       |    |    |  |  |  |  |
| GE       | 12000 | 22.7 | 30.1 | 32.2 | 33.9 | 35.2 | 37.2 | 37.8 | 39.0 | 39.5 | 40.4 | 40.4                             | 40.4 | 40.5 | 40.6 | 41.0 | 41.6 |       |    |    |  |  |  |  |
| GE       | 10000 | 24.0 | 31.7 | 33.8 | 35.6 | 37.1 | 39.0 | 39.6 | 40.8 | 41.2 | 42.3 | 42.3                             | 42.3 | 42.4 | 42.5 | 42.9 | 43.5 |       |    |    |  |  |  |  |
| GE       | 9000  | 24.6 | 33.0 | 35.1 | 36.9 | 38.4 | 40.5 | 41.1 | 42.4 | 42.8 | 43.8 | 43.8                             | 43.9 | 44.0 | 44.5 | 45.0 | 45.6 |       |    |    |  |  |  |  |
| GE       | 8000  | 24.7 | 33.2 | 35.3 | 37.1 | 38.6 | 40.7 | 41.4 | 42.6 | 43.0 | 44.0 | 44.0                             | 44.0 | 44.1 | 44.3 | 44.7 | 45.3 |       |    |    |  |  |  |  |
| GE       | 7000  | 24.9 | 33.3 | 35.5 | 37.2 | 38.7 | 40.8 | 41.5 | 42.7 | 43.1 | 44.1 | 44.1                             | 44.1 | 44.3 | 44.6 | 44.9 | 45.4 |       |    |    |  |  |  |  |
| GE       | 6000  | 25.2 | 34.1 | 36.2 | 38.0 | 39.6 | 41.7 | 42.4 | 43.6 | 44.0 | 45.0 | 45.0                             | 45.0 | 45.2 | 45.5 | 45.7 | 46.3 |       |    |    |  |  |  |  |
| GE       | 5000  | 27.1 | 37.0 | 39.1 | 41.2 | 43.0 | 45.3 | 45.9 | 47.2 | 47.6 | 48.6 | 48.6                             | 48.6 | 48.7 | 48.8 | 49.3 | 49.9 |       |    |    |  |  |  |  |
| GE       | 4500  | 27.9 | 38.1 | 40.4 | 42.7 | 44.6 | 46.8 | 47.5 | 48.8 | 49.4 | 50.5 | 50.5                             | 50.5 | 50.5 | 50.6 | 51.7 | 51.8 |       |    |    |  |  |  |  |
| GE       | 4000  | 28.7 | 39.5 | 41.7 | 44.1 | 46.0 | 48.3 | 48.9 | 50.4 | 50.9 | 52.1 | 52.1                             | 52.1 | 52.1 | 52.2 | 52.3 | 52.4 |       |    |    |  |  |  |  |
| GE       | 3500  | 30.0 | 41.9 | 43.6 | 46.0 | 47.9 | 50.2 | 50.8 | 52.3 | 52.8 | 54.0 | 54.0                             | 54.0 | 54.1 | 54.2 | 54.6 | 55.3 |       |    |    |  |  |  |  |
| GE       | 3000  | 32.8 | 45.4 | 48.0 | 50.8 | 52.8 | 55.3 | 56.1 | 57.5 | 58.1 | 59.2 | 59.2                             | 59.2 | 59.3 | 59.4 | 59.9 | 60.6 |       |    |    |  |  |  |  |
| GE       | 2500  | 35.0 | 48.7 | 51.5 | 54.4 | 56.4 | 59.0 | 59.8 | 61.2 | 61.8 | 62.9 | 62.9                             | 62.9 | 63.0 | 63.1 | 63.5 | 64.3 |       |    |    |  |  |  |  |
| GE       | 2000  | 36.3 | 51.3 | 54.4 | 58.2 | 61.0 | 63.4 | 64.4 | 65.9 | 66.9 | 67.6 | 67.6                             | 67.6 | 67.7 | 67.8 | 68.2 | 69.0 |       |    |    |  |  |  |  |
| GE       | 1800  | 36.8 | 52.2 | 55.3 | 59.2 | 62.0 | 64.4 | 65.8 | 66.9 | 67.8 | 68.7 | 68.7                             | 68.7 | 68.7 | 68.8 | 68.9 | 69.3 |       |    |    |  |  |  |  |
| GE       | 1500  | 37.8 | 54.0 | 57.2 | 61.3 | 64.2 | 66.8 | 67.9 | 69.3 | 69.9 | 71.2 | 71.2                             | 71.2 | 71.5 | 71.7 | 72.1 | 72.9 |       |    |    |  |  |  |  |
| GE       | 1200  | 39.5 | 56.9 | 60.2 | 65.0 | 68.0 | 70.6 | 71.7 | 73.2 | 73.8 | 75.1 | 75.1                             | 75.1 | 75.4 | 75.6 | 76.0 | 76.8 |       |    |    |  |  |  |  |
| GE       | 2000  | 35.0 | 48.7 | 51.5 | 54.4 | 56.4 | 59.0 | 59.8 | 61.2 | 61.8 | 62.9 | 62.9                             | 62.9 | 63.0 | 63.1 | 63.5 | 64.3 |       |    |    |  |  |  |  |
| GE       | 1800  | 36.3 | 51.3 | 54.4 | 58.2 | 61.0 | 63.4 | 64.4 | 65.9 | 66.9 | 67.6 | 67.6                             | 67.6 | 67.7 | 67.8 | 68.2 | 69.0 |       |    |    |  |  |  |  |
| GE       | 1600  | 36.8 | 52.2 | 55.3 | 59.2 | 62.0 | 64.4 | 65.8 | 66.9 | 67.8 | 68.7 | 68.7                             | 68.7 | 68.7 | 68.8 | 68.9 | 69.3 |       |    |    |  |  |  |  |
| GE       | 1500  | 37.8 | 54.0 | 57.2 | 61.3 | 64.2 | 66.8 | 67.9 | 69.3 | 69.9 | 71.2 | 71.2                             | 71.2 | 71.5 | 71.7 | 72.1 | 72.9 |       |    |    |  |  |  |  |
| GE       | 1200  | 39.5 | 56.9 | 60.2 | 65.0 | 68.0 | 70.6 | 71.7 | 73.2 | 73.8 | 75.1 | 75.1                             | 75.1 | 75.4 | 75.6 | 76.0 | 76.8 |       |    |    |  |  |  |  |
| GF       | 1800  | 40.6 | 59.0 | 62.4 | 67.4 | 70.7 | 73.4 | 74.5 | 76.0 | 76.6 | 77.9 | 77.9                             | 77.9 | 78.1 | 78.4 | 78.8 | 79.6 |       |    |    |  |  |  |  |
| GE       | 900   | 40.6 | 59.6 | 63.2 | 66.2 | 71.6 | 74.1 | 75.3 | 76.9 | 77.5 | 78.8 | 78.8                             | 78.8 | 79.0 | 79.3 | 79.7 | 80.5 |       |    |    |  |  |  |  |
| GF       | 900   | 40.9 | 60.4 | 64.1 | 69.2 | 72.7 | 75.7 | 76.8 | 78.5 | 79.0 | 80.4 | 80.4                             | 80.4 | 80.6 | 81.4 | 82.2 | 83.0 |       |    |    |  |  |  |  |
| GE       | 700   | 41.0 | 61.2 | 65.1 | 70.3 | 74.2 | 77.4 | 78.6 | 80.5 | 81.2 | 82.5 | 82.5                             | 82.5 | 82.8 | 83.1 | 83.6 | 84.4 |       |    |    |  |  |  |  |
| GE       | 600   | 41.2 | 61.8 | 66.0 | 71.8 | 76.1 | 79.7 | 81.2 | 83.4 | 84.2 | 85.5 | 85.5                             | 85.5 | 85.8 | 86.1 | 86.6 | 87.4 |       |    |    |  |  |  |  |
| GE       | 500   | 41.6 | 62.5 | 67.1 | 73.1 | 77.6 | 81.3 | 82.8 | 85.4 | 86.2 | 87.5 | 87.5                             | 87.5 | 87.8 | 88.1 | 88.6 | 89.5 |       |    |    |  |  |  |  |
| GE       | 400   | 42.3 | 63.8 | 68.6 | 74.8 | 79.7 | 83.2 | 84.8 | 87.5 | 88.6 | 89.7 | 89.7                             | 89.7 | 90.1 | 90.3 | 90.9 | 91.6 |       |    |    |  |  |  |  |
| GE       | 300   | 42.3 | 64.3 | 69.2 | 75.0 | 80.7 | 84.7 | 86.6 | 90.1 | 91.3 | 92.6 | 92.6                             | 92.6 | 93.0 | 93.2 | 93.8 | 94.6 |       |    |    |  |  |  |  |
| GE       | 200   | 42.3 | 64.3 | 69.2 | 75.8 | 80.7 | 84.7 | 86.7 | 90.5 | 91.9 | 93.2 | 93.3                             | 93.3 | 93.6 | 93.9 | 94.4 | 95.3 |       |    |    |  |  |  |  |
| GE       | 100   | 42.3 | 64.3 | 69.2 | 75.8 | 80.7 | 84.6 | 86.8 | 91.0 | 92.0 | 94.3 | 94.4                             | 94.4 | 94.5 | 94.9 | 95.2 | 95.8 | 96.7  |    |    |  |  |  |  |
| GE       | 71    | 42.3 | 64.3 | 69.2 | 75.8 | 80.8 | 84.8 | 86.8 | 91.0 | 92.0 | 94.4 | 94.8                             | 94.8 | 95.0 | 95.3 | 95.7 | 96.3 | 100.0 |    |    |  |  |  |  |

TOTAL NUMBER OF OBSERVATIONS: 897

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: ROTCOMTE DOWN UK

PERIOD OF RECORD: 77-86  
MONTHS: NOV HOURS: 0100-0500 ALL

| CEILING  | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |
|----------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----|
|          | IN                               | GT   | GE   | GT    | GE |
| FEET     | 160                              | 90   | 80   | 60   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 6    | 5    | 4    | 3     | 0  |
| NO CEIL  | 15.1                             | 22.6 | 23.5 | 29.6 | 25.1 | 25.9 | 26.5 | 27.1 | 27.4 | 27.7 | 27.7 | 27.7 | 27.9 | 28.2 | 28.4 | 29.0  |    |
| GE 2000  | 23.9                             | 30.0 | 31.4 | 32.8 | 33.3 | 34.6 | 35.2 | 36.1 | 36.4 | 36.7 | 36.8 | 37.0 | 37.4 | 37.6 | 38.5 | 38.5  |    |
| GE 1800  | 24.0                             | 30.2 | 31.4 | 32.9 | 33.6 | 34.7 | 35.3 | 36.2 | 36.5 | 36.9 | 37.0 | 37.1 | 37.5 | 37.7 | 38.6 | 38.6  |    |
| GE 1600  | 24.0                             | 30.2 | 31.4 | 33.0 | 34.0 | 34.7 | 35.4 | 36.3 | 36.6 | 36.9 | 37.0 | 37.2 | 37.6 | 37.8 | 38.7 | 38.7  |    |
| GE 1400  | 24.5                             | 30.8 | 32.1 | 33.7 | 34.7 | 35.5 | 36.1 | 37.0 | 37.3 | 37.7 | 37.7 | 37.7 | 37.9 | 38.3 | 38.5 | 39.4  |    |
| GE 1200  | 25.7                             | 31.7 | 33.1 | 34.8 | 35.9 | 36.7 | 37.4 | 38.3 | 38.6 | 38.9 | 39.0 | 39.0 | 39.6 | 39.8 | 40.7 | 40.7  |    |
| GE 1000  | 26.5                             | 33.4 | 34.7 | 36.5 | 37.7 | 38.6 | 39.3 | 40.3 | 40.6 | 41.0 | 41.1 | 41.1 | 41.3 | 41.7 | 41.9 | 42.8  |    |
| GE 900   | 27.1                             | 34.2 | 35.7 | 37.6 | 38.9 | 39.8 | 40.6 | 41.6 | 42.3 | 42.7 | 42.9 | 42.6 | 43.3 | 43.2 | 43.2 | 44.1  |    |
| GE 800   | 27.4                             | 34.5 | 36.0 | 38.0 | 39.7 | 40.2 | 41.0 | 42.0 | 42.3 | 42.7 | 42.7 | 42.6 | 43.0 | 43.4 | 43.6 | 44.5  |    |
| GE 700   | 27.7                             | 34.9 | 36.4 | 38.4 | 39.7 | 40.6 | 41.9 | 42.8 | 42.8 | 43.2 | 43.2 | 43.3 | 43.5 | 43.9 | 44.1 | 45.0  |    |
| GE 600   | 28.5                             | 35.9 | 37.4 | 39.5 | 40.8 | 41.7 | 42.5 | 43.6 | 43.9 | 44.3 | 44.4 | 44.6 | 45.0 | 45.2 | 46.1 | 46.1  |    |
| GE 500   | 29.8                             | 37.9 | 39.5 | 41.7 | 43.1 | 44.0 | 44.8 | 45.9 | 46.2 | 46.6 | 46.7 | 46.7 | 47.0 | 47.4 | 47.6 | 48.5  |    |
| GE 400   | 31.0                             | 39.6 | 41.3 | 43.6 | 45.0 | 45.9 | 46.7 | 47.8 | 48.2 | 48.7 | 48.8 | 49.0 | 49.4 | 49.7 | 50.6 | 51.6  |    |
| GE 300   | 32.3                             | 41.4 | 43.1 | 45.5 | 47.0 | 48.0 | 48.8 | 50.0 | 50.4 | 50.9 | 51.0 | 51.2 | 51.7 | 51.9 | 52.8 | 52.8  |    |
| GE 200   | 33.4                             | 42.7 | 44.6 | 47.1 | 48.7 | 49.7 | 50.6 | 51.8 | 52.2 | 52.8 | 52.9 | 52.9 | 53.1 | 53.5 | 53.7 | 54.7  |    |
| GE 100   | 35.9                             | 46.0 | 48.1 | 51.1 | 52.6 | 53.6 | 54.7 | 56.0 | 56.4 | 57.0 | 57.1 | 57.3 | 57.8 | 58.0 | 58.9 | 58.9  |    |
| GE 50    | 38.5                             | 49.6 | 51.9 | 55.0 | 56.6 | 58.0 | 58.9 | 60.3 | 60.7 | 61.3 | 61.3 | 61.4 | 61.6 | 62.0 | 62.2 | 63.1  |    |
| GE 20    | 40.7                             | 53.3 | 56.1 | 59.6 | 61.4 | 62.8 | 63.9 | 65.4 | 65.8 | 66.4 | 66.5 | 66.6 | 66.8 | 67.2 | 67.4 | 68.4  |    |
| GE 10    | 41.7                             | 54.8 | 57.7 | 61.4 | 63.5 | 64.7 | 65.8 | 67.3 | 67.8 | 68.4 | 68.5 | 68.6 | 68.8 | 69.2 | 69.4 | 70.4  |    |
| GE 5     | 43.1                             | 57.0 | 60.0 | 63.9 | 66.7 | 67.8 | 68.5 | 70.0 | 70.5 | 71.2 | 71.3 | 71.6 | 72.1 | 72.3 | 73.3 | 73.3  |    |
| GE 2     | 45.0                             | 60.4 | 63.7 | 68.0 | 70.8 | 71.8 | 73.0 | 74.6 | 75.1 | 75.8 | 76.0 | 76.2 | 76.7 | 76.9 | 77.9 | 77.9  |    |
| GE 1     | 45.9                             | 62.3 | 65.7 | 70.4 | 73.1 | 74.5 | 75.7 | 77.4 | 77.9 | 78.6 | 78.7 | 78.8 | 79.0 | 79.5 | 79.8 | 80.8  |    |
| GE 0.5   | 46.1                             | 62.9 | 66.5 | 71.4 | 74.7 | 75.7 | 76.9 | 78.7 | 79.2 | 79.9 | 80.1 | 80.1 | 80.3 | 80.9 | 81.1 | 82.1  |    |
| GE 0.2   | 46.4                             | 63.8 | 67.6 | 72.7 | 75.9 | 77.3 | 78.6 | 80.5 | 81.1 | 81.8 | 81.9 | 82.0 | 82.2 | 82.7 | 83.0 | 84.0  |    |
| GE 0.1   | 46.8                             | 65.6 | 69.9 | 75.5 | 79.1 | 81.0 | 82.8 | 84.6 | 85.4 | 86.2 | 86.3 | 86.3 | 86.6 | 87.1 | 87.4 | 88.4  |    |
| GE 0.05  | 47.0                             | 66.1 | 70.7 | 76.6 | 80.4 | 82.4 | 84.0 | 86.5 | 87.5 | 88.1 | 88.7 | 88.5 | 88.5 | 89.1 | 89.3 | 90.3  |    |
| GE 0.01  | 47.1                             | 56.6 | 71.3 | 77.9 | 81.1 | 84.8 | 85.5 | 88.2 | 89.1 | 89.9 | 90.0 | 90.1 | 90.4 | 91.2 | 92.2 | 92.2  |    |
| GE 0.001 | 47.1                             | 66.8 | 71.6 | 78.0 | 82.5 | 84.9 | 86.8 | 89.8 | 90.7 | 91.4 | 91.7 | 91.8 | 92.1 | 92.6 | 93.9 | 93.9  |    |
| GE 0.001 | 47.1                             | 66.9 | 71.7 | 78.2 | 82.9 | 85.5 | 87.6 | 91.0 | 92.2 | 93.5 | 93.7 | 93.9 | 94.3 | 95.0 | 95.2 | 96.0  |    |
| GE 0.001 | 47.1                             | 66.9 | 71.7 | 78.2 | 82.9 | 85.5 | 87.7 | 91.1 | 92.3 | 93.6 | 93.9 | 94.2 | 94.7 | 95.7 | 96.1 | 100.0 |    |

TOTAL NUMBER OF OBSERVATIONS: 7150

GLOBAL CLIMATOLOGY BRANCH  
USAFTAC  
AIR WEATHER SERVICE/NASC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037867 STATION NAME: BOSCOMB DOWN UK

PERIOD OF RECORDS: 77-86  
MONTH: DEC HOURS(SLT): 0000-0400

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                       | 160                              | 90   | 60   | 40   | 32   | 24   | 20   | 16   | 14   | 10   | 8    | 6    | 5    | 4    | 0    |       |
| NO CEIL               | 16.7                             | 20.9 | 21.1 | 21.6 | 23.1 | 23.9 | 23.9 | 25.1 | 25.6 | 26.1 | 26.3 | 26.6 | 26.9 | 27.0 | 28.3 |       |
| GE 200001             | 20.0                             | 25.6 | 26.3 | 27.0 | 28.7 | 29.4 | 29.4 | 31.0 | 31.5 | 32.0 | 32.7 | 32.2 | 32.6 | 32.8 | 32.9 | 34.2  |
| GE 180001             | 20.1                             | 26.0 | 26.6 | 27.3 | 29.0 | 29.8 | 29.8 | 31.3 | 31.9 | 32.3 | 32.7 | 32.6 | 32.9 | 33.1 | 33.2 | 34.6  |
| GE 160001             | 20.1                             | 26.4 | 26.6 | 27.3 | 29.0 | 29.8 | 29.8 | 31.3 | 31.9 | 32.3 | 32.7 | 32.6 | 32.9 | 33.1 | 33.2 | 34.6  |
| GE 140001             | 20.6                             | 26.3 | 27.0 | 27.6 | 29.3 | 30.1 | 30.1 | 31.7 | 32.3 | 32.8 | 33.1 | 33.0 | 33.3 | 33.6 | 33.7 | 35.0  |
| GE 120001             | 21.1                             | 27.2 | 27.9 | 28.5 | 30.1 | 31.0 | 31.0 | 32.6 | 33.2 | 33.7 | 33.9 | 34.2 | 34.4 | 34.6 | 35.0 |       |
| GE 100001             | 22.5                             | 28.9 | 29.1 | 30.2 | 31.0 | 32.7 | 32.7 | 34.2 | 34.9 | 35.3 | 35.6 | 35.9 | 36.2 | 36.3 | 37.7 |       |
| GE 90001              | 23.1                             | 29.7 | 30.3 | 31.0 | 32.7 | 33.6 | 33.6 | 35.0 | 35.7 | 36.1 | 36.5 | 36.7 | 37.0 | 37.1 | 38.5 |       |
| GE 80001              | 23.2                             | 30.0 | 30.7 | 31.3 | 33.0 | 33.8 | 33.8 | 35.3 | 36.1 | 36.6 | 36.8 | 37.1 | 37.6 | 37.7 | 39.1 |       |
| GE 70001              | 23.5                             | 30.9 | 31.5 | 32.2 | 33.9 | 34.7 | 35.0 | 36.6 | 37.3 | 37.8 | 38.1 | 38.0 | 38.4 | 38.9 | 39.0 | 40.5  |
| GE 60001              | 23.9                             | 31.4 | 32.1 | 32.8 | 34.4 | 35.2 | 35.6 | 37.1 | 37.9 | 38.4 | 38.7 | 38.6 | 38.9 | 39.5 | 39.6 | 41.0  |
| GE 50001              | 25.1                             | 33.3 | 34.1 | 34.8 | 36.1 | 37.3 | 37.9 | 39.5 | 40.2 | 40.7 | 41.1 | 41.0 | 41.4 | 42.0 | 42.1 | 43.6  |
| GE 45001              | 26.0                             | 34.8 | 35.7 | 36.5 | 38.1 | 39.1 | 39.7 | 41.4 | 42.3 | 42.7 | 43.0 | 43.1 | 43.5 | 44.1 | 44.4 | 45.8  |
| GE 40001              | 27.1                             | 36.3 | 37.2 | 38.1 | 39.8 | 40.8 | 41.4 | 43.0 | 43.9 | 44.5 | 44.8 | 44.9 | 45.3 | 45.9 | 46.2 | 47.6  |
| GE 35001              | 28.0                             | 37.6 | 38.6 | 39.7 | 41.4 | 42.4 | 42.9 | 44.6 | 45.5 | 46.0 | 46.4 | 46.5 | 46.8 | 47.5 | 49.1 |       |
| GE 30001              | 30.3                             | 40.7 | 41.8 | 43.0 | 44.8 | 45.8 | 46.4 | 48.3 | 49.2 | 49.7 | 50.1 | 50.2 | 51.2 | 51.4 | 52.8 |       |
| GE 25001              | 31.8                             | 42.6 | 43.7 | 45.3 | 47.0 | 48.3 | 48.8 | 50.8 | 52.0 | 52.5 | 52.8 | 53.0 | 53.3 | 54.0 | 54.2 | 55.7  |
| GE 20001              | 34.1                             | 46.9 | 48.7 | 50.1 | 52.1 | 53.5 | 54.1 | 56.2 | 57.4 | 58.0 | 58.1 | 58.4 | 59.0 | 59.8 | 60.0 | 61.6  |
| GE 18001              | 35.1                             | 48.7 | 49.9 | 51.0 | 53.3 | 55.5 | 56.1 | 58.2 | 59.4 | 60.0 | 60.1 | 60.4 | 61.0 | 61.4 | 62.0 | 63.9  |
| GE 15001              | 36.7                             | 52.1 | 54.7 | 55.9 | 58.5 | 60.0 | 60.5 | 62.8 | 64.1 | 65.7 | 65.9 | 65.7 | 66.4 | 66.7 | 68.6 |       |
| GE 12001              | 37.5                             | 56.0 | 56.8 | 58.4 | 61.5 | 63.2 | 63.8 | 66.1 | 67.4 | 68.1 | 68.4 | 68.6 | 69.2 | 70.0 | 70.2 | 74.1  |
| GE 10001              | 38.0                             | 55.6 | 57.9 | 60.3 | 63.7 | 65.2 | 66.0 | 68.5 | 69.8 | 70.5 | 70.8 | 70.9 | 71.6 | 72.4 | 72.6 | 74.5  |
| GE 90001              | 38.4                             | 56.3 | 58.6 | 61.8 | 64.7 | 66.8 | 67.3 | 69.8 | 71.1 | 71.8 | 72.1 | 72.2 | 72.9 | 73.7 | 73.9 | 75.0  |
| GE 80001              | 38.9                             | 57.5 | 60.1 | 62.9 | 66.1 | 68.0 | 68.9 | 71.5 | 72.8 | 73.6 | 73.9 | 74.0 | 74.7 | 75.5 | 75.7 | 77.6  |
| GE 70001              | 39.4                             | 59.4 | 62.7 | 65.1 | 68.0 | 70.8 | 71.7 | 74.2 | 75.6 | 76.4 | 76.7 | 76.8 | 77.5 | 78.3 | 78.5 | 80.4  |
| GE 60001              | 40.0                             | 60.8 | 64.0 | 67.0 | 70.0 | 73.0 | 74.2 | 76.9 | 78.3 | 79.0 | 79.4 | 79.5 | 80.2 | 80.9 | 81.2 | 83.1  |
| GE 50001              | 40.5                             | 61.6 | 65.1 | 68.3 | 72.7 | 74.8 | 76.3 | 78.9 | 80.3 | 81.0 | 81.4 | 81.5 | 82.2 | 82.9 | 83.2 | 85.1  |
| GE 40001              | 40.7                             | 62.4 | 66.1 | 70.1 | 74.4 | 77.1 | 78.9 | 81.6 | 82.9 | 83.7 | 84.7 | 84.3 | 85.7 | 86.0 | 87.0 |       |
| GE 30001              | 40.7                             | 63.1 | 67.0 | 71.3 | 76.1 | 78.7 | 80.7 | 83.7 | 85.1 | 85.8 | 86.1 | 86.4 | 87.1 | 87.8 | 88.1 | 90.0  |
| GE 20001              | 40.7                             | 63.4 | 67.1 | 71.9 | 77.5 | 80.2 | 82.6 | 86.3 | 87.6 | 88.9 | 89.4 | 89.6 | 90.0 | 91.6 | 91.9 | 93.0  |
| GE 15001              | 40.7                             | 63.3 | 67.2 | 72.0 | 77.6 | 80.3 | 83.1 | 87.3 | 89.4 | 91.0 | 92.0 | 92.1 | 94.0 | 94.9 | 97.1 |       |
| GE                    | 40.7                             | 63.5 | 67.2 | 72.0 | 77.6 | 80.3 | 83.1 | 87.4 | 89.5 | 91.1 | 92.1 | 92.5 | 93.4 | 95.3 | 96.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 897

GLOBAL CLIMATOLOGY BRANCH  
USAFAETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86

MONTH: DEC HOURS(LST): 0300-0500

| CEILING  | VISIBILITY IN HUNDREDS OF METERS |      |          |          |          |          |          |          |          |          |          |          |         |         |         |         |      |  |
|----------|----------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|--|
|          | IN                               | FT   | GE<br>90 | GE<br>50 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>6 |      |  |
| NO CEIL  | 19.9                             | 19.5 | 19.8     | 20.7     | 21.2     | 21.6     | 21.9     | 23.6     | 24.3     | 25.0     | 25.1     | 25.4     | 25.6    | 25.2    | 25.6    | 25.8    | 27.4 |  |
| GE 20000 | 18.1                             | 23.3 | 24.1     | 25.2     | 25.9     | 26.2     | 26.7     | 28.2     | 29.1     | 29.9     | 30.0     | 33.2     | 30.3    | 30.8    | 31.0    | 32.8    |      |  |
| GE 14000 | 18.2                             | 23.4 | 24.2     | 25.3     | 26.1     | 26.6     | 27.0     | 28.6     | 29.4     | 30.2     | 30.7     | 30.6     | 30.7    | 31.1    | 31.3    | 33.1    |      |  |
| GE 16000 | 19.3                             | 23.5 | 24.3     | 25.4     | 26.2     | 26.7     | 27.1     | 28.7     | 29.6     | 30.3     | 30.4     | 30.7     | 30.8    | 31.2    | 31.4    | 33.2    |      |  |
| GE 18000 | 14.6                             | 23.8 | 24.6     | 25.7     | 26.4     | 26.9     | 27.3     | 28.9     | 29.8     | 30.6     | 30.7     | 31.9     | 31.0    | 31.4    | 31.7    | 33.4    |      |  |
| GE 12000 | 19.1                             | 24.3 | 25.1     | 26.3     | 27.1     | 27.6     | 28.0     | 29.7     | 30.6     | 31.3     | 31.4     | 31.7     | 31.8    | 32.2    | 32.4    | 34.2    |      |  |
| GE 10000 | 20.3                             | 26.0 | 26.6     | 28.0     | 28.4     | 29.2     | 29.7     | 31.3     | 32.2     | 33.0     | 37.1     | 33.3     | 33.4    | 33.9    | 34.1    | 35.9    |      |  |
| GE 9000  | 20.8                             | 26.4 | 27.2     | 28.4     | 29.2     | 29.7     | 30.1     | 31.6     | 32.7     | 33.4     | 37.6     | 33.6     | 33.9    | 34.2    | 34.6    | 36.3    |      |  |
| GE 8000  | 20.9                             | 26.6 | 27.3     | 28.6     | 29.3     | 29.8     | 30.2     | 31.9     | 32.8     | 33.6     | 37.7     | 33.9     | 34.0    | 34.4    | 34.7    | 36.4    |      |  |
| GE 7000  | 21.2                             | 26.9 | 27.7     | 28.9     | 29.7     | 30.3     | 30.6     | 32.3     | 33.2     | 34.0     | 37.1     | 33.9     | 34.3    | 34.9    | 35.1    | 36.9    |      |  |
| GE 6000  | 27.7                             | 28.6 | 29.3     | 30.6     | 31.3     | 31.8     | 32.2     | 34.0     | 34.9     | 35.7     | 37.9     | 36.0     | 36.1    | 36.6    | 36.8    | 38.6    |      |  |
| GE 5000  | 29.0                             | 31.6 | 32.4     | 33.7     | 34.4     | 36.9     | 35.3     | 37.1     | 38.0     | 38.8     | 39.9     | 39.1     | 39.2    | 39.7    | 39.9    | 41.7    |      |  |
| GE 4500  | 29.6                             | 33.1 | 34.2     | 35.8     | 36.4     | 37.0     | 37.6     | 39.8     | 40.7     | 41.4     | 41.6     | 41.8     | 41.9    | 42.5    | 42.6    | 44.3    |      |  |
| GE 4000  | 26.7                             | 34.3 | 35.4     | 37.0     | 37.2     | 38.3     | 39.0     | 41.3     | 42.2     | 43.0     | 47.2     | 43.4     | 43.6    | 44.0    | 44.2    | 46.0    |      |  |
| GE 3500  | 27.8                             | 36.1 | 37.6     | 39.0     | 39.9     | 40.3     | 41.0     | 43.3     | 44.2     | 45.0     | 45.2     | 45.4     | 45.6    | 46.3    | 46.6    | 48.0    |      |  |
| GE 3000  | 30.1                             | 39.3 | 40.8     | 42.4     | 43.6     | 44.0     | 44.8     | 47.3     | 48.2     | 49.0     | 49.2     | 49.4     | 49.6    | 50.0    | 50.3    | 52.1    |      |  |
| GE 2500  | 27.1                             | 42.7 | 44.7     | 46.3     | 47.4     | 48.0     | 48.8     | 51.4     | 52.3     | 53.2     | 57.4     | 53.7     | 53.9    | 54.3    | 54.7    | 56.4    |      |  |
| GE 2000  | 39.7                             | 46.6 | 48.7     | 50.7     | 51.4     | 52.3     | 53.2     | 56.1     | 57.0     | 58.0     | 59.2     | 58.4     | 58.7    | 59.1    | 59.4    | 61.2    |      |  |
| GE 1800  | 35.9                             | 48.6 | 52.8     | 52.9     | 54.1     | 54.7     | 55.7     | 58.7     | 59.6     | 60.6     | 60.8     | 61.0     | 61.2    | 61.8    | 62.1    | 63.9    |      |  |
| GE 1500  | 37.3                             | 51.0 | 53.5     | 55.7     | 57.1     | 58.0     | 59.0     | 62.1     | 63.0     | 64.0     | 64.7     | 64.4     | 64.7    | 65.2    | 65.6    | 67.3    |      |  |
| GE 1200  | 34.3                             | 53.7 | 56.7     | 59.2     | 61.2     | 62.3     | 63.4     | 66.7     | 67.7     | 68.7     | 69.9     | 69.1     | 69.3    | 70.0    | 70.3    | 72.3    |      |  |
| GE 1000  | 39.3                             | 55.4 | 59.6     | 61.4     | 63.6     | 66.7     | 65.8     | 69.0     | 70.1     | 71.2     | 71.6     | 71.7     | 71.9    | 72.6    | 72.9    | 74.9    |      |  |
| GE 900   | 39.9                             | 56.1 | 59.6     | 62.2     | 64.3     | 65.4     | 66.6     | 69.9     | 71.0     | 72.1     | 72.3     | 72.6     | 72.8    | 73.4    | 73.8    | 75.8    |      |  |
| GE 800   | 39.6                             | 56.8 | 67.2     | 63.3     | 65.0     | 66.9     | 68.1     | 71.6     | 72.7     | 73.8     | 74.0     | 74.2     | 74.4    | 75.1    | 75.4    | 77.4    |      |  |
| GE 700   | 40.0                             | 59.1 | 62.7     | 65.9     | 68.1     | 69.9     | 71.2     | 76.7     | 75.8     | 76.9     | 77.1     | 77.3     | 77.6    | 78.2    | 78.6    | 80.6    |      |  |
| GE 600   | 40.9                             | 60.6 | 64.1     | 67.9     | 70.7     | 72.0     | 73.4     | 76.9     | 78.1     | 79.2     | 79.4     | 79.7     | 79.9    | 80.6    | 80.9    | 82.9    |      |  |
| GE 500   | 41.2                             | 61.6 | 65.3     | 69.6     | 72.7     | 73.7     | 75.2     | 78.7     | 79.9     | 81.0     | 81.2     | 81.4     | 81.7    | 82.3    | 82.7    | 84.7    |      |  |
| GE 400   | 41.6                             | 62.2 | 66.2     | 70.7     | 74.0     | 75.6     | 77.3     | 81.1     | 82.3     | 83.4     | 83.7     | 83.9     | 84.1    | 84.6    | 85.1    | 87.1    |      |  |
| GE 300   | 41.6                             | 62.9 | 66.7     | 71.6     | 74.9     | 76.7     | 78.6     | 83.1     | 84.9     | 85.7     | 85.9     | 86.1     | 86.4    | 87.1    | 87.6    | 89.4    |      |  |
| GE 200   | 41.6                             | 62.9 | 66.9     | 72.1     | 75.9     | 77.7     | 80.2     | 85.7     | 87.2     | 88.6     | 89.2     | 89.0     | 89.6    | 90.1    | 90.4    | 92.4    |      |  |
| GE 100   | 41.6                             | 62.4 | 67.0     | 72.3     | 76.5     | 78.2     | 81.0     | 87.7     | 89.8     | 91.7     | 92.7     | 92.4     | 93.6    | 93.9    | 96.2    |         |      |  |
| GE 0     | 41.6                             | 62.6 | 67.0     | 72.3     | 76.7     | 78.2     | 81.1     | 87.8     | 89.9     | 91.9     | 92.6     | 92.6     | 93.6    | 94.4    | 95.0    | 100.0   |      |  |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: ROSSCROFT DOWN UK

PERIOD OF RECORD: 77-86

MONTH: DEC HOURS/LIST: 0600-0800

| CEILING<br>FELT | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |
|-----------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|
|                 | IN<br>160                        | GT<br>90 | GE<br>40 | GE<br>60 | GE<br>43 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |
| NO CEIL         | 14.5                             | 17.8     | 18.8     | 20.0     | 20.3     | 20.7     | 20.9     | 21.8     | 21.9     | 22.3     | 22.3     | 22.6     | 22.6    | 22.8    | 22.9    | 24.5    |
| GE 20000        | 17.8                             | 22.3     | 23.4     | 24.9     | 25.1     | 26.1     | 26.4     | 27.5     | 27.7     | 28.2     | 28.2     | 28.4     | 28.6    | 28.7    | 30.3    |         |
| GE 18000        | 17.8                             | 22.3     | 23.4     | 24.9     | 25.0     | 26.4     | 26.6     | 27.8     | 28.0     | 28.5     | 28.5     | 28.8     | 29.1    | 29.2    | 30.7    |         |
| GE 16000        | 17.8                             | 22.3     | 23.4     | 25.0     | 26.0     | 26.5     | 26.7     | 27.9     | 28.2     | 28.7     | 29.1     | 29.1     | 29.3    | 29.4    | 30.9    |         |
| GE 14000        | 18.2                             | 22.6     | 23.9     | 25.7     | 26.7     | 27.3     | 27.5     | 28.8     | 29.1     | 29.6     | 29.6     | 29.9     | 30.2    | 30.3    | 31.8    |         |
| GE 12000        | 18.8                             | 23.5     | 24.6     | 26.4     | 27.4     | 27.9     | 28.2     | 29.5     | 29.7     | 30.3     | 30.3     | 30.6     | 30.9    | 31.1    | 32.6    |         |
| GE 10000        | 19.9                             | 25.1     | 26.3     | 28.0     | 29.1     | 29.6     | 29.8     | 31.2     | 31.4     | 32.0     | 32.0     | 32.3     | 32.6    | 32.7    | 34.4    |         |
| GE 9000         | 20.1                             | 25.8     | 26.9     | 28.7     | 29.7     | 30.4     | 30.6     | 32.0     | 32.2     | 32.7     | 32.7     | 33.1     | 33.1    | 33.4    | 33.5    | 35.2    |
| GE 8000         | 20.1                             | 25.6     | 26.9     | 28.7     | 29.7     | 30.4     | 30.6     | 32.0     | 32.2     | 32.7     | 32.7     | 33.1     | 33.1    | 33.4    | 33.5    | 35.2    |
| GE 7000         | 20.1                             | 25.8     | 26.9     | 28.7     | 29.7     | 30.4     | 30.6     | 32.0     | 32.2     | 32.7     | 32.7     | 33.1     | 33.1    | 33.4    | 33.5    | 35.2    |
| GE 6000         | 27.0                             | 27.8     | 28.9     | 30.7     | 31.8     | 32.5     | 32.7     | 34.1     | 34.3     | 34.9     | 34.9     | 35.2     | 35.5    | 35.6    | 37.3    |         |
| GE 5000         | 24.5                             | 30.6     | 32.0     | 33.9     | 35.0     | 35.8     | 36.0     | 37.3     | 37.5     | 38.1     | 38.1     | 38.4     | 38.4    | 38.9    | 40.6    |         |
| GE 4000         | 25.8                             | 31.7     | 33.1     | 35.0     | 36.1     | 36.9     | 37.1     | 38.4     | 38.7     | 39.2     | 39.2     | 39.6     | 39.6    | 39.9    | 40.0    | 41.7    |
| GE 3000         | 26.6                             | 33.2     | 34.7     | 36.8     | 37.9     | 38.8     | 39.0     | 40.3     | 40.6     | 41.1     | 41.1     | 41.5     | 41.5    | 41.8    | 41.9    | 43.6    |
| GE 2000         | 27.3                             | 34.1     | 35.8     | 37.8     | 39.0     | 39.9     | 40.1     | 41.6     | 41.8     | 42.3     | 42.3     | 42.7     | 42.7    | 43.0    | 43.1    | 44.8    |
| GE 1000         | 30.1                             | 37.4     | 39.6     | 42.0     | 43.2     | 44.1     | 44.5     | 45.9     | 46.3     | 46.8     | 46.8     | 47.2     | 47.2    | 47.5    | 47.6    | 49.3    |
| GE 2700         | 31.8                             | 40.0     | 42.3     | 44.8     | 46.5     | 47.6     | 48.0     | 49.7     | 50.1     | 50.6     | 50.6     | 50.9     | 50.9    | 51.3    | 51.4    | 53.1    |
| GE 27000        | 34.2                             | 43.7     | 46.4     | 49.2     | 50.9     | 52.2     | 52.7     | 54.4     | 54.7     | 55.3     | 55.3     | 55.6     | 55.8    | 56.1    | 56.2    | 58.0    |
| GE 17000        | 35.6                             | 45.6     | 49.3     | 51.3     | 53.3     | 54.6     | 55.5     | 57.3     | 57.7     | 58.2     | 58.2     | 58.7     | 58.8    | 59.1    | 59.2    | 61.0    |
| GE 15000        | 37.5                             | 48.8     | 51.6     | 55.0     | 57.1     | 58.7     | 59.6     | 61.5     | 61.8     | 62.3     | 62.3     | 62.8     | 62.9    | 63.2    | 63.4    | 65.1    |
| GE 12000        | 38.7                             | 52.3     | 55.2     | 59.1     | 61.6     | 63.2     | 64.1     | 66.4     | 66.7     | 67.3     | 67.3     | 67.7     | 67.8    | 68.2    | 68.3    | 70.1    |
| GE 10000        | 39.4                             | 54.7     | 57.9     | 62.0     | 65.1     | 66.9     | 67.8     | 70.1     | 70.5     | 71.1     | 71.1     | 71.5     | 71.6    | 72.0    | 72.1    | 73.9    |
| GE 9000         | 39.7                             | 55.2     | 58.4     | 62.8     | 66.0     | 67.9     | 68.8     | 71.1     | 71.5     | 72.1     | 72.1     | 72.5     | 72.6    | 73.0    | 73.1    | 74.9    |
| GE 8000         | 39.7                             | 56.0     | 59.3     | 64.4     | 67.6     | 69.6     | 70.5     | 72.7     | 73.2     | 73.7     | 73.7     | 74.2     | 74.3    | 74.6    | 74.7    | 76.5    |
| GE 7000         | 40.1                             | 57.2     | 60.7     | 66.6     | 70.1     | 72.1     | 73.0     | 75.3     | 75.9     | 76.4     | 76.4     | 76.9     | 77.0    | 77.3    | 77.4    | 79.2    |
| GE 6000         | 40.3                             | 58.5     | 62.3     | 68.9     | 72.4     | 74.5     | 75.4     | 78.0     | 78.5     | 79.1     | 79.1     | 79.6     | 79.7    | 80.0    | 80.1    | 81.9    |
| GE 5000         | 40.7                             | 59.3     | 63.2     | 69.9     | 73.1     | 75.6     | 76.5     | 79.1     | 79.7     | 80.2     | 80.2     | 80.7     | 80.9    | 81.1    | 81.2    | 83.0    |
| GE 4000         | 41.1                             | 60.4     | 64.0     | 71.3     | 75.2     | 77.5     | 78.4     | 81.2     | 81.9     | 82.6     | 82.6     | 83.0     | 83.1    | 83.5    | 83.6    | 85.4    |
| GE 3000         | 41.3                             | 61.0     | 65.4     | 72.6     | 77.1     | 79.6     | 80.8     | 84.4     | 85.1     | 85.8     | 85.8     | 86.3     | 86.4    | 86.7    | 86.8    | 88.7    |
| GE 2000         | 41.3                             | 61.2     | 65.7     | 73.3     | 77.0     | 80.3     | 81.8     | 86.0     | 87.2     | 88.2     | 88.2     | 88.7     | 88.8    | 89.2    | 89.3    | 91.2    |
| GE 1000         | 41.3                             | 61.2     | 65.7     | 73.4     | 78.1     | 81.3     | 83.0     | 88.0     | 89.5     | 91.5     | 92.2     | 92.7     | 93.1    | 94.1    | 94.2    | 96.8    |
| GE 01           | 41.3                             | 61.2     | 65.7     | 73.4     | 78.5     | 81.3     | 83.0     | 88.0     | 89.5     | 91.8     | 92.5     | 93.1     | 93.4    | 95.3    | 95.8    | 100.0   |

TOTAL NUMBER OF OBSERVATIONS: 895

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 0900-1100

| CEILING  | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |    |    |
|----------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|----|----|
|          | IN                               | GT   | GE    | GE | GE |
| FEET     | 160                              | 90   | 90   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4    | 0     |    |    |
| NO CEIL  | 14.3                             | 17.0 | 17.6 | 19.4 | 20.0 | 20.7 | 20.7 | 20.9 | 21.1 | 21.1 | 21.2 | 21.2 | 21.2 | 21.6 | 21.6 | 22.3  |    |    |
| GE 20000 | 18.9                             | 24.7 | 25.9 | 28.3 | 29.4 | 30.4 | 30.6 | 31.1 | 31.4 | 31.4 | 31.6 | 31.6 | 31.6 | 32.3 | 32.3 | 33.1  |    |    |
| GE 18000 | 19.3                             | 25.3 | 26.6 | 29.0 | 30.1 | 31.1 | 31.2 | 31.8 | 32.1 | 32.1 | 32.2 | 32.2 | 32.2 | 33.0 | 33.0 | 33.8  |    |    |
| GE 16000 | 19.6                             | 25.6 | 26.8 | 29.2 | 30.3 | 31.3 | 31.4 | 32.0 | 32.3 | 32.3 | 32.4 | 32.4 | 32.4 | 33.2 | 33.2 | 34.0  |    |    |
| GE 14000 | 19.8                             | 25.9 | 27.1 | 29.6 | 30.8 | 31.8 | 32.0 | 32.6 | 32.9 | 32.9 | 33.0 | 33.0 | 33.0 | 33.8 | 33.8 | 34.6  |    |    |
| GE 12000 | 21.0                             | 27.1 | 28.3 | 30.8 | 32.1 | 33.1 | 33.4 | 34.0 | 34.3 | 34.3 | 34.4 | 34.4 | 34.4 | 35.2 | 35.3 | 36.1  |    |    |
| GE 10000 | 22.6                             | 28.9 | 30.1 | 32.6 | 33.9 | 34.9 | 35.2 | 35.8 | 36.2 | 36.3 | 36.4 | 36.4 | 36.4 | 37.2 | 37.4 | 38.2  |    |    |
| GE 9000  | 23.2                             | 30.2 | 31.6 | 34.2 | 35.6 | 36.6 | 36.9 | 37.6 | 38.0 | 38.1 | 38.2 | 38.2 | 38.2 | 39.0 | 39.2 | 40.1  |    |    |
| GE 8000  | 23.3                             | 30.6 | 31.9 | 34.6 | 36.0 | 37.0 | 37.3 | 38.1 | 38.6 | 38.7 | 38.8 | 38.8 | 38.8 | 39.6 | 39.8 | 40.7  |    |    |
| GE 7000  | 23.7                             | 30.9 | 32.3 | 35.0 | 36.4 | 37.4 | 37.8 | 38.6 | 39.0 | 39.1 | 39.2 | 39.2 | 39.2 | 40.0 | 40.2 | 41.1  |    |    |
| GE 6000  | 24.8                             | 32.2 | 33.8 | 36.6 | 38.0 | 39.0 | 39.3 | 40.1 | 40.6 | 40.7 | 40.8 | 40.8 | 40.8 | 41.6 | 41.8 | 42.7  |    |    |
| GE 5000  | 25.0                             | 34.1 | 35.8 | 38.7 | 40.1 | 41.1 | 41.4 | 42.2 | 42.7 | 42.8 | 43.0 | 43.0 | 43.8 | 44.0 | 44.9 |       |    |    |
| GE 4500  | 26.8                             | 35.6 | 37.3 | 40.4 | 41.9 | 42.9 | 43.2 | 44.0 | 44.4 | 44.6 | 44.8 | 44.8 | 44.8 | 45.6 | 45.8 | 46.7  |    |    |
| GE 4000  | 27.6                             | 36.4 | 38.2 | 41.6 | 43.1 | 44.1 | 44.4 | 45.3 | 45.8 | 45.9 | 46.1 | 46.1 | 46.1 | 46.9 | 47.1 | 48.0  |    |    |
| GE 3500  | 27.7                             | 36.9 | 38.7 | 42.1 | 43.8 | 44.8 | 45.1 | 46.0 | 46.4 | 46.7 | 46.9 | 46.9 | 46.9 | 47.7 | 47.9 | 48.8  |    |    |
| GE 3000  | 29.0                             | 38.4 | 40.3 | 44.1 | 45.8 | 47.0 | 47.3 | 48.2 | 48.7 | 48.9 | 49.1 | 49.2 | 49.2 | 50.0 | 50.2 | 51.1  |    |    |
| GE 2500  | 30.7                             | 41.0 | 43.0 | 47.1 | 49.1 | 50.7 | 51.2 | 52.2 | 52.8 | 53.0 | 53.2 | 53.3 | 53.3 | 54.1 | 54.3 | 55.2  |    |    |
| GE 2000  | 32.3                             | 44.3 | 46.6 | 50.9 | 53.1 | 54.8 | 55.7 | 56.8 | 57.7 | 57.9 | 58.1 | 58.2 | 58.2 | 59.0 | 59.2 | 60.1  |    |    |
| GE 1900  | 34.3                             | 46.7 | 49.0 | 53.6 | 56.0 | 57.7 | 58.6 | 59.7 | 60.6 | 60.8 | 61.0 | 61.1 | 61.1 | 61.9 | 62.1 | 63.0  |    |    |
| GE 1500  | 35.4                             | 48.7 | 51.2 | 56.0 | 58.7 | 60.3 | 61.2 | 62.7 | 63.6 | 63.8 | 64.0 | 64.1 | 64.1 | 64.9 | 65.1 | 66.0  |    |    |
| GE 1200  | 37.3                             | 52.6 | 55.3 | 60.2 | 63.2 | 64.9 | 65.9 | 67.6 | 68.7 | 69.0 | 69.2 | 69.3 | 69.3 | 70.1 | 70.3 | 71.2  |    |    |
| GE 1000  | 39.4                             | 54.1 | 57.0 | 62.3 | 65.7 | 67.4 | 68.4 | 70.1 | 71.2 | 71.6 | 71.8 | 71.9 | 71.9 | 72.8 | 73.0 | 73.9  |    |    |
| GE 900   | 39.4                             | 55.6 | 58.4 | 63.8 | 67.1 | 68.9 | 69.9 | 71.6 | 72.7 | 73.0 | 73.2 | 73.3 | 73.3 | 74.2 | 74.4 | 75.3  |    |    |
| GE 800   | 40.0                             | 56.4 | 59.4 | 65.1 | 68.8 | 70.6 | 71.6 | 73.2 | 74.4 | 74.8 | 75.0 | 75.1 | 75.1 | 76.0 | 76.2 | 77.1  |    |    |
| GE 600   | 41.2                             | 59.4 | 63.0 | 69.3 | 73.9 | 75.9 | 77.0 | 78.9 | 80.1 | 80.4 | 80.7 | 80.9 | 80.9 | 81.8 | 82.0 | 82.9  |    |    |
| GE 500   | 41.6                             | 60.1 | 63.9 | 70.4 | 75.2 | 77.3 | 78.6 | 80.8 | 82.0 | 82.3 | 82.6 | 82.8 | 82.8 | 83.7 | 83.9 | 84.8  |    |    |
| GE 400   | 41.8                             | 60.8 | 64.6 | 71.9 | 77.3 | 80.0 | 81.6 | 84.2 | 85.4 | 85.9 | 86.1 | 86.3 | 86.3 | 87.2 | 87.4 | 88.3  |    |    |
| GE 300   | 41.8                             | 61.1 | 65.2 | 72.9 | 78.6 | 81.7 | 83.7 | 86.4 | 88.0 | 88.4 | 88.7 | 88.9 | 88.9 | 89.8 | 90.0 | 90.9  |    |    |
| GE 200   | 41.8                             | 61.1 | 65.3 | 73.6 | 79.6 | 83.2 | 86.1 | 89.9 | 91.4 | 92.1 | 92.3 | 92.6 | 92.6 | 93.4 | 93.7 | 94.6  |    |    |
| GE 100   | 41.8                             | 61.1 | 65.3 | 73.6 | 79.9 | 83.6 | 86.4 | 90.7 | 92.2 | 93.4 | 93.9 | 94.1 | 94.2 | 95.4 | 95.7 | 97.8  |    |    |
| GE 0     | 41.8                             | 61.1 | 65.3 | 73.6 | 79.9 | 83.6 | 86.4 | 90.7 | 92.2 | 93.6 | 94.0 | 94.2 | 94.4 | 95.8 | 96.0 | 100.0 |    |    |

TOTAL NUMBER OF OBSERVATIONS: 900

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 1200-1400

| CEILING<br>IN<br>FEET | GT<br>160 | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |         |         |         |         |      |       |      |  |
|-----------------------|-----------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|------|-------|------|--|
|                       |           | GE<br>90                         | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>36 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |      |       |      |  |
| NO CEIL               | 13.8      | 17.7                             | 18.7     | 19.9     | 20.5     | 20.7     | 20.9     | 21.1     | 21.1     | 21.1     | 21.1     | 21.1    | 21.4    | 21.4    | 21.4    | 21.4 | 21.4  | 21.5 |  |
| GE 20000              | 23.0      | 29.3                             | 30.5     | 31.9     | 32.9     | 33.3     | 33.6     | 33.9     | 33.9     | 33.9     | 33.9     | 33.9    | 34.1    | 34.1    | 34.1    | 34.1 | 34.1  | 34.5 |  |
| GE 18000              | 23.1      | 29.5                             | 30.7     | 32.1     | 33.1     | 33.5     | 33.8     | 34.1     | 34.1     | 34.1     | 34.1     | 34.1    | 34.4    | 34.4    | 34.4    | 34.4 | 34.4  | 34.7 |  |
| GE 16000              | 23.1      | 29.5                             | 30.7     | 32.1     | 33.1     | 33.5     | 33.8     | 34.1     | 34.1     | 34.1     | 34.1     | 34.1    | 34.4    | 34.4    | 34.4    | 34.4 | 34.4  | 34.7 |  |
| GE 14000              | 24.0      | 30.6                             | 31.6     | 33.3     | 34.3     | 34.6     | 34.9     | 35.3     | 35.3     | 35.3     | 35.3     | 35.3    | 35.5    | 35.5    | 35.5    | 35.5 | 35.5  | 35.8 |  |
| GE 12000              | 24.8      | 31.7                             | 33.0     | 34.5     | 35.5     | 35.8     | 36.2     | 36.6     | 36.6     | 36.6     | 36.6     | 36.6    | 36.8    | 36.8    | 36.8    | 36.8 | 36.8  | 37.2 |  |
| GE 10000              | 26.9      | 34.5                             | 35.8     | 37.3     | 38.5     | 38.6     | 38.9     | 39.6     | 39.6     | 39.6     | 39.6     | 39.6    | 39.8    | 39.8    | 39.8    | 39.8 | 39.8  | 40.2 |  |
| GE 9000               | 26.3      | 36.4                             | 38.2     | 39.7     | 40.7     | 41.0     | 41.4     | 42.0     | 42.0     | 42.0     | 42.0     | 42.0    | 42.3    | 42.3    | 42.3    | 42.3 | 42.3  | 42.6 |  |
| GE 8000               | 28.4      | 36.6                             | 38.5     | 40.0     | 41.0     | 41.4     | 41.7     | 42.4     | 42.4     | 42.4     | 42.4     | 42.4    | 42.6    | 42.6    | 42.6    | 42.6 | 42.6  | 42.9 |  |
| GE 7000               | 28.6      | 36.8                             | 38.7     | 40.3     | 41.4     | 41.7     | 42.0     | 42.7     | 42.7     | 42.7     | 42.7     | 42.7    | 42.9    | 42.9    | 42.9    | 42.9 | 42.9  | 43.3 |  |
| GE 6000               | 28.9      | 37.5                             | 39.4     | 41.0     | 42.2     | 42.5     | 42.8     | 43.5     | 43.5     | 43.5     | 43.5     | 43.5    | 43.7    | 43.7    | 43.7    | 43.7 | 43.7  | 44.0 |  |
| GE 5000               | 29.9      | 38.8                             | 40.7     | 42.5     | 43.6     | 44.0     | 44.5     | 45.4     | 45.4     | 45.4     | 45.4     | 45.4    | 45.7    | 45.7    | 45.7    | 45.7 | 45.7  | 46.4 |  |
| GE 4500               | 31.1      | 40.7                             | 42.7     | 44.8     | 45.9     | 46.4     | 46.8     | 47.8     | 47.8     | 47.8     | 47.8     | 47.8    | 48.2    | 48.2    | 48.2    | 48.2 | 48.2  | 48.8 |  |
| GE 4000               | 32.6      | 42.7                             | 44.7     | 47.1     | 48.3     | 48.7     | 49.3     | 50.3     | 50.3     | 50.3     | 50.3     | 50.4    | 50.6    | 50.8    | 50.8    | 50.8 | 50.9  | 51.3 |  |
| GE 3500               | 33.0      | 43.5                             | 45.6     | 48.2     | 49.4     | 49.8     | 50.4     | 51.4     | 51.4     | 51.4     | 51.4     | 51.5    | 51.7    | 51.9    | 52.1    | 52.1 | 52.1  | 52.4 |  |
| GE 3000               | 35.7      | 46.4                             | 48.5     | 51.3     | 52.6     | 53.2     | 53.7     | 54.7     | 54.7     | 54.7     | 54.7     | 54.8    | 55.1    | 55.3    | 55.4    | 55.4 | 55.4  | 55.7 |  |
| GE 2500               | 37.4      | 48.6                             | 51.1     | 54.1     | 55.5     | 56.1     | 56.7     | 57.7     | 57.7     | 57.7     | 57.7     | 57.7    | 58.1    | 58.3    | 58.4    | 58.4 | 58.4  | 58.7 |  |
| GE 2000               | 39.4      | 51.3                             | 53.8     | 57.1     | 58.7     | 59.5     | 60.3     | 61.5     | 61.5     | 61.5     | 61.5     | 61.6    | 61.6    | 62.1    | 62.1    | 62.2 | 62.2  | 62.5 |  |
| GE 1800               | 40.9      | 53.5                             | 56.1     | 59.4     | 61.1     | 62.0     | 62.7     | 64.0     | 64.0     | 64.0     | 64.0     | 64.1    | 64.3    | 64.5    | 64.6    | 64.6 | 64.6  | 65.0 |  |
| GE 1500               | 43.9      | 57.6                             | 60.3     | 64.0     | 66.2     | 67.4     | 68.3     | 69.5     | 69.5     | 69.5     | 69.5     | 69.6    | 69.9    | 70.1    | 70.2    | 70.2 | 70.2  | 70.5 |  |
| GE 1200               | 46.4      | 62.1                             | 65.0     | 69.3     | 71.6     | 72.9     | 73.7     | 75.1     | 75.1     | 75.1     | 75.2     | 75.2    | 75.4    | 75.6    | 75.6    | 75.8 | 75.8  | 76.1 |  |
| GE 1000               | 47.8      | 64.3                             | 67.4     | 71.9     | 74.2     | 75.5     | 76.4     | 77.8     | 77.8     | 77.8     | 77.8     | 77.9    | 78.1    | 78.3    | 78.4    | 78.4 | 78.4  | 78.8 |  |
| GE 900                | 47.9      | 65.0                             | 68.2     | 72.6     | 75.2     | 76.6     | 77.5     | 78.9     | 79.0     | 79.1     | 79.1     | 79.3    | 79.5    | 79.6    | 79.6    | 79.6 | 79.6  | 80.0 |  |
| GE 800                | 49.8      | 66.2                             | 69.5     | 74.4     | 77.1     | 78.8     | 79.6     | 81.0     | 81.1     | 81.2     | 81.2     | 81.4    | 81.6    | 81.8    | 81.8    | 81.8 | 81.8  | 82.1 |  |
| GE 700                | 49.6      | 67.7                             | 71.3     | 76.5     | 79.4     | 80.9     | 82.0     | 83.5     | 83.6     | 83.8     | 83.8     | 84.0    | 84.2    | 84.3    | 84.3    | 84.3 | 84.6  | 84.6 |  |
| GE 600                | 50.2      | 69.2                             | 73.2     | 78.6     | 82.1     | 83.8     | 85.4     | 87.2     | 87.4     | 87.5     | 87.5     | 87.8    | 88.0    | 88.1    | 88.1    | 88.1 | 88.4  | 88.4 |  |
| GE 500                | 50.3      | 70.2                             | 74.5     | 80.4     | 84.1     | 86.1     | 87.8     | 89.8     | 90.0     | 90.1     | 90.1     | 90.3    | 90.5    | 90.7    | 90.7    | 90.7 | 91.0  |      |  |
| GE 400                | 50.4      | 70.7                             | 75.2     | 81.2     | 85.0     | 87.1     | 88.8     | 90.9     | 91.2     | 91.3     | 91.3     | 91.5    | 91.8    | 91.9    | 91.9    | 91.9 | 92.2  |      |  |
| GE 300                | 50.5      | 71.2                             | 75.9     | 81.9     | 86.2     | 86.8     | 90.5     | 92.8     | 93.2     | 93.3     | 93.3     | 93.5    | 93.8    | 93.9    | 93.9    | 93.9 | 94.2  |      |  |
| GE 200                | 50.5      | 71.2                             | 75.9     | 82.1     | 87.0     | 89.9     | 92.1     | 94.8     | 95.3     | 95.7     | 95.9     | 96.2    | 96.6    | 96.7    | 96.7    | 96.7 | 97.0  |      |  |
| GE 100                | 50.5      | 71.4                             | 76.1     | 82.3     | 87.2     | 90.1     | 92.3     | 95.1     | 96.0     | 96.4     | 96.8     | 97.1    | 97.4    | 97.7    | 97.7    | 97.7 | 98.7  |      |  |
| GE 0                  | 50.5      | 71.4                             | 76.1     | 82.3     | 87.2     | 90.1     | 92.3     | 95.1     | 96.0     | 96.4     | 96.8     | 97.1    | 97.4    | 98.2    | 98.2    | 98.2 | 100.0 |      |  |

TOTAL NUMBER OF OBSERVATIONS: 899

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 1500-1700

| CEILING<br>IN<br>FELT | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |      |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |      |
| NO CEIL               | 15.3                             | 18.7     | 19.6     | 20.7     | 21.2     | 21.2     | 21.4     | 21.7     | 21.7     | 21.8     | 21.8     | 21.8    | 21.8    | 21.8    | 21.8    | 21.8  | 21.8 |
| GE 20000              | 23.7                             | 30.2     | 31.5     | 33.2     | 34.2     | 34.2     | 34.5     | 34.7     | 34.7     | 34.8     | 34.8     | 34.8    | 34.8    | 34.8    | 34.8    | 34.8  | 34.9 |
| GE 18000              | 23.7                             | 30.2     | 31.5     | 33.2     | 34.2     | 34.2     | 34.5     | 34.7     | 34.7     | 34.8     | 34.8     | 34.8    | 34.8    | 34.8    | 34.8    | 34.8  | 34.9 |
| GE 16000              | 23.7                             | 30.2     | 31.5     | 33.2     | 34.2     | 34.2     | 34.5     | 34.7     | 34.7     | 34.8     | 34.8     | 34.8    | 34.8    | 34.8    | 34.8    | 34.8  | 34.9 |
| GE 14000              | 24.2                             | 30.9     | 32.2     | 33.9     | 34.9     | 34.9     | 35.1     | 35.5     | 35.5     | 35.6     | 35.6     | 35.6    | 35.6    | 35.6    | 35.6    | 35.6  | 35.7 |
| GE 12000              | 25.5                             | 32.4     | 33.9     | 35.7     | 36.8     | 36.9     | 37.1     | 37.5     | 37.5     | 37.6     | 37.6     | 37.6    | 37.6    | 37.6    | 37.6    | 37.6  | 37.7 |
| GE 10000              | 26.6                             | 34.3     | 35.9     | 37.9     | 39.1     | 39.3     | 39.5     | 40.0     | 40.0     | 40.1     | 40.1     | 40.1    | 40.1    | 40.1    | 40.1    | 40.1  | 40.2 |
| GE 9000               | 27.3                             | 35.4     | 37.0     | 39.2     | 40.3     | 40.5     | 40.7     | 41.2     | 41.2     | 41.3     | 41.3     | 41.3    | 41.3    | 41.3    | 41.3    | 41.3  | 41.4 |
| GE 8000               | 27.4                             | 35.6     | 37.3     | 39.4     | 40.5     | 40.7     | 41.0     | 41.4     | 41.4     | 41.5     | 41.5     | 41.5    | 41.5    | 41.5    | 41.5    | 41.5  | 41.6 |
| GE 7000               | 27.5                             | 35.7     | 37.4     | 39.5     | 40.6     | 40.9     | 41.1     | 41.5     | 41.5     | 41.6     | 41.6     | 41.6    | 41.6    | 41.6    | 41.6    | 41.6  | 41.8 |
| GE 6000               | 27.5                             | 35.9     | 37.9     | 40.2     | 41.5     | 41.8     | 42.0     | 42.4     | 42.4     | 42.5     | 42.5     | 42.5    | 42.5    | 42.5    | 42.5    | 42.5  | 42.6 |
| GE 5000               | 27.8                             | 36.9     | 39.1     | 41.3     | 42.6     | 42.9     | 43.1     | 43.5     | 43.5     | 43.8     | 43.8     | 43.8    | 43.8    | 43.8    | 43.8    | 43.8  | 43.9 |
| GE 4500               | 28.2                             | 38.2     | 40.7     | 43.2     | 44.6     | 44.8     | 45.0     | 45.5     | 45.5     | 45.7     | 45.7     | 45.7    | 45.7    | 45.7    | 45.7    | 45.7  | 45.8 |
| GE 4000               | 30.3                             | 40.5     | 43.1     | 46.0     | 47.4     | 47.7     | 47.9     | 48.4     | 48.4     | 48.6     | 48.6     | 48.6    | 48.6    | 48.6    | 48.6    | 48.6  | 48.7 |
| GE 3500               | 31.0                             | 41.2     | 43.8     | 46.9     | 48.3     | 48.6     | 48.8     | 49.3     | 49.4     | 49.6     | 49.6     | 49.6    | 49.6    | 49.6    | 49.6    | 49.6  | 49.7 |
| GE 3000               | 33.9                             | 44.8     | 47.5     | 50.8     | 52.2     | 52.5     | 52.9     | 53.4     | 53.5     | 53.8     | 53.8     | 53.8    | 53.8    | 53.8    | 53.8    | 53.8  | 53.9 |
| GE 2500               | 35.1                             | 46.4     | 49.4     | 52.7     | 54.2     | 54.5     | 54.9     | 55.4     | 55.6     | 55.8     | 55.8     | 55.8    | 55.8    | 55.8    | 55.8    | 55.8  | 55.9 |
| GE 2000               | 39.1                             | 51.4     | 54.7     | 58.2     | 59.8     | 60.2     | 60.5     | 61.2     | 61.3     | 61.5     | 61.5     | 61.5    | 61.5    | 61.5    | 61.5    | 61.5  | 61.6 |
| GE 1800               | 40.2                             | 53.1     | 56.6     | 60.3     | 62.1     | 62.5     | 62.9     | 63.6     | 63.7     | 64.0     | 64.0     | 64.0    | 64.0    | 64.0    | 64.0    | 64.0  | 64.1 |
| GE 1500               | 42.5                             | 57.2     | 60.8     | 65.0     | 67.0     | 67.5     | 67.9     | 68.7     | 68.8     | 69.0     | 69.0     | 69.0    | 69.0    | 69.0    | 69.0    | 69.1  | 69.2 |
| GE 1200               | 44.3                             | 61.2     | 65.0     | 69.6     | 71.7     | 72.4     | 73.1     | 73.8     | 74.0     | 74.3     | 74.4     | 74.4    | 74.4    | 74.5    | 74.5    | 74.6  | 74.6 |
| GE 1000               | 45.7                             | 64.2     | 68.4     | 73.6     | 75.9     | 76.8     | 77.6     | 78.3     | 78.5     | 78.8     | 78.9     | 78.9    | 78.9    | 78.9    | 79.0    | 79.0  | 79.1 |
| GE 900                | 46.0                             | 64.9     | 69.1     | 74.7     | 77.1     | 78.0     | 78.8     | 79.6     | 79.7     | 80.0     | 80.1     | 80.1    | 80.1    | 80.1    | 80.2    | 80.2  | 80.4 |
| GE 800                | 46.6                             | 66.3     | 70.7     | 76.7     | 79.7     | 80.1     | 81.1     | 81.9     | 82.0     | 82.4     | 82.6     | 82.6    | 82.6    | 82.7    | 82.7    | 82.9  | 82.9 |
| GE 700                | 47.1                             | 67.6     | 72.2     | 78.5     | 81.5     | 82.4     | 83.4     | 84.2     | 84.3     | 84.6     | 85.0     | 85.0    | 85.0    | 85.1    | 85.1    | 85.3  | 85.3 |
| GE 600                | 47.4                             | 68.7     | 73.8     | 80.6     | 84.4     | 85.7     | 86.9     | 88.0     | 88.2     | 88.6     | 88.9     | 88.9    | 88.9    | 89.0    | 89.0    | 89.2  | 89.2 |
| GE 500                | 47.6                             | 69.1     | 74.5     | 81.6     | 85.5     | 87.1     | 88.3     | 89.5     | 89.8     | 90.1     | 90.5     | 90.5    | 90.5    | 90.6    | 90.6    | 90.6  | 90.8 |
| GE 400                | 47.7                             | 69.4     | 74.9     | 82.4     | 87.2     | 90.1     | 90.5     | 91.8     | 92.4     | 92.7     | 93.0     | 93.0    | 93.2    | 93.3    | 93.3    | 93.5  | 93.5 |
| GE 300                | 47.7                             | 69.4     | 75.2     | 83.1     | 88.4     | 70.3     | 91.8     | 93.2     | 93.7     | 94.1     | 94.5     | 94.5    | 94.6    | 94.7    | 94.7    | 94.9  | 94.9 |
| GE 200                | 47.7                             | 69.5     | 75.3     | 83.4     | 89.2     | 91.5     | 93.3     | 94.8     | 95.6     | 96.1     | 96.5     | 96.5    | 96.6    | 96.7    | 96.7    | 97.0  | 97.0 |
| GE 100                | 47.7                             | 69.5     | 75.3     | 83.4     | 89.3     | 91.6     | 93.5     | 95.3     | 96.2     | 96.9     | 97.4     | 97.5    | 97.6    | 97.8    | 97.8    | 98.7  | 98.7 |
| GE 01                 | 47.7                             | 69.5     | 75.3     | 83.4     | 89.3     | 91.6     | 93.5     | 95.3     | 96.2     | 97.0     | 97.5     | 97.6    | 97.9    | 98.2    | 98.2    | 100.0 |      |

TOTAL NUMBER OF OBSERVATIONS: 891

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 1800-2000

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |  |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|--|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |  |
| NO CEFIL              | 14.3                             | 19.3     | 20.0     | 22.2     | 23.0     | 23.9     | 24.3     | 24.8     | 25.0     | 25.3     | 25.3     | 25.4     | 25.5    | 25.5    | 25.5    | 25.5    | 25.5  |  |
| GE 20000              | 18.8                             | 25.6     | 26.7     | 30.0     | 30.7     | 32.0     | 32.6     | 33.2     | 33.4     | 33.7     | 33.7     | 33.7     | 33.9    | 34.0    | 34.0    | 34.0    | 34.0  |  |
| GE 18000              | 19.0                             | 25.9     | 27.0     | 30.2     | 31.0     | 32.2     | 32.9     | 33.4     | 33.6     | 34.0     | 34.0     | 34.0     | 34.1    | 34.2    | 34.2    | 34.2    | 34.2  |  |
| GE 16000              | 19.0                             | 25.9     | 27.0     | 30.2     | 31.0     | 32.2     | 32.9     | 33.4     | 33.6     | 34.0     | 34.0     | 34.0     | 34.1    | 34.2    | 34.2    | 34.2    | 34.2  |  |
| GE 14000              | 19.4                             | 26.6     | 27.9     | 31.1     | 31.9     | 33.4     | 34.2     | 34.7     | 35.0     | 35.3     | 35.3     | 35.3     | 35.4    | 35.5    | 35.5    | 35.5    | 35.5  |  |
| GE 12000              | 20.6                             | 28.1     | 29.3     | 32.5     | 33.3     | 34.9     | 35.6     | 36.2     | 36.4     | 36.7     | 36.7     | 36.8     | 37.0    | 37.0    | 37.0    | 37.0    | 37.0  |  |
| GE 10000              | 22.3                             | 30.0     | 31.3     | 34.6     | 35.5     | 37.2     | 38.0     | 38.6     | 39.0     | 39.3     | 39.3     | 39.4     | 39.6    | 39.6    | 39.6    | 39.6    | 39.6  |  |
| GE 9000               | 22.6                             | 30.7     | 32.1     | 35.5     | 36.4     | 38.1     | 38.8     | 39.5     | 39.8     | 40.2     | 40.2     | 40.3     | 40.6    | 40.6    | 40.6    | 40.6    | 40.6  |  |
| GE 8000               | 22.8                             | 31.0     | 32.3     | 35.7     | 36.6     | 38.3     | 39.1     | 39.7     | 40.1     | 40.4     | 40.4     | 40.5     | 40.8    | 40.8    | 40.8    | 40.8    | 40.8  |  |
| GE 7000               | 23.0                             | 31.2     | 32.5     | 36.0     | 36.8     | 38.5     | 39.4     | 40.1     | 40.4     | 40.7     | 40.7     | 40.8     | 41.2    | 41.2    | 41.2    | 41.2    | 41.2  |  |
| GE 6000               | 23.2                             | 31.5     | 32.9     | 36.4     | 37.3     | 39.1     | 40.0     | 40.6     | 41.0     | 41.3     | 41.3     | 41.4     | 41.7    | 41.7    | 41.7    | 41.7    | 41.7  |  |
| GE 5000               | 23.5                             | 31.9     | 33.2     | 36.8     | 37.7     | 39.5     | 40.4     | 41.2     | 41.5     | 41.8     | 41.8     | 42.0     | 42.1    | 42.4    | 42.4    | 42.4    | 42.4  |  |
| GE 4500               | 24.8                             | 33.2     | 34.5     | 38.5     | 39.4     | 41.3     | 42.2     | 43.0     | 43.3     | 43.6     | 43.7     | 43.8     | 44.0    | 44.3    | 44.3    | 44.3    | 44.3  |  |
| GE 4000               | 25.5                             | 34.4     | 35.8     | 40.0     | 41.2     | 43.1     | 44.0     | 44.7     | 45.1     | 45.4     | 45.5     | 45.6     | 45.7    | 46.1    | 46.1    | 46.1    | 46.1  |  |
| GE 3500               | 26.6                             | 35.6     | 35.6     | 41.2     | 42.4     | 44.3     | 45.3     | 46.1     | 46.5     | 46.9     | 47.1     | 47.2     | 47.3    | 47.6    | 47.6    | 47.6    | 47.6  |  |
| GE 3000               | 29.1                             | 38.7     | 40.3     | 44.8     | 46.1     | 47.9     | 49.7     | 50.2     | 50.6     | 50.7     | 50.8     | 50.9     | 51.4    | 51.4    | 51.4    | 51.4    | 51.4  |  |
| GE 2500               | 30.7                             | 41.6     | 43.2     | 47.8     | 49.5     | 51.7     | 52.7     | 53.5     | 53.9     | 54.4     | 54.5     | 54.6     | 54.7    | 55.2    | 55.2    | 55.2    | 55.2  |  |
| GE 2000               | 32.6                             | 44.4     | 46.4     | 51.6     | 53.4     | 55.8     | 56.8     | 57.7     | 58.2     | 58.7     | 58.8     | 58.9     | 59.0    | 59.5    | 59.5    | 59.5    | 59.5  |  |
| GE 1800               | 33.5                             | 45.8     | 47.9     | 53.3     | 55.7     | 57.5     | 58.6     | 59.5     | 59.9     | 60.5     | 60.6     | 60.7     | 60.8    | 61.3    | 61.3    | 61.3    | 61.3  |  |
| GE 1500               | 35.6                             | 49.8     | 52.3     | 57.7     | 59.7     | 62.3     | 63.6     | 64.5     | 64.9     | 65.5     | 65.6     | 65.7     | 65.8    | 66.3    | 66.3    | 66.3    | 66.3  |  |
| GE 1200               | 37.5                             | 53.5     | 56.3     | 62.3     | 64.4     | 66.9     | 68.4     | 69.3     | 69.8     | 70.4     | 70.5     | 70.6     | 70.7    | 71.1    | 71.1    | 71.1    | 71.1  |  |
| GE 1000               | 38.8                             | 56.3     | 59.5     | 65.7     | 67.9     | 70.5     | 72.0     | 72.9     | 73.5     | 74.0     | 74.1     | 74.3     | 74.4    | 74.8    | 74.8    | 74.8    | 74.8  |  |
| GE 900                | 39.0                             | 56.8     | 60.0     | 66.5     | 68.6     | 71.3     | 72.8     | 73.7     | 74.3     | 74.8     | 74.9     | 75.0     | 75.1    | 75.6    | 75.6    | 75.6    | 75.6  |  |
| GE 800                | 39.7                             | 58.3     | 61.6     | 68.4     | 70.6     | 73.5     | 75.0     | 75.9     | 76.5     | 77.0     | 77.1     | 77.2     | 77.4    | 77.8    | 77.8    | 77.8    | 77.8  |  |
| GE 700                | 40.1                             | 58.9     | 62.5     | 69.8     | 72.0     | 74.9     | 76.6     | 77.6     | 78.1     | 78.7     | 78.9     | 79.0     | 79.1    | 79.6    | 79.6    | 79.6    | 79.6  |  |
| GE 600                | 40.6                             | 60.3     | 63.9     | 72.6     | 75.0     | 78.1     | 79.9     | 81.0     | 81.7     | 82.2     | 82.5     | 82.6     | 82.7    | 83.1    | 83.1    | 83.1    | 83.1  |  |
| GE 500                | 40.7                             | 60.9     | 64.7     | 73.9     | 76.5     | 79.9     | 81.8     | 83.0     | 83.7     | 84.4     | 84.6     | 84.7     | 84.8    | 85.2    | 85.2    | 85.2    | 85.2  |  |
| GE 400                | 41.1                             | 62.0     | 66.0     | 75.9     | 78.7     | 82.6     | 84.9     | 86.6     | 87.5     | 88.1     | 88.3     | 88.5     | 88.6    | 89.0    | 89.0    | 89.0    | 89.0  |  |
| GE 300                | 41.1                             | 62.5     | 66.9     | 77.5     | 80.6     | 84.7     | 87.5     | 89.5     | 90.8     | 91.7     | 91.9     | 92.0     | 92.1    | 92.6    | 92.6    | 92.6    | 92.6  |  |
| GE 200                | 41.1                             | 62.5     | 67.1     | 77.8     | 81.2     | 75.6     | 88.8     | 91.1     | 92.7     | 94.0     | 94.2     | 94.3     | 94.5    | 95.0    | 95.0    | 95.0    | 95.0  |  |
| GE 100                | 41.1                             | 62.5     | 67.1     | 77.8     | 81.2     | 85.8     | 89.0     | 91.7     | 93.7     | 95.2     | 95.7     | 95.8     | 96.0    | 97.0    | 97.1    | 97.6    | 97.6  |  |
| GE 0                  | 41.1                             | 62.5     | 67.1     | 77.8     | 81.2     | 85.8     | 89.0     | 91.7     | 93.7     | 95.3     | 95.8     | 96.0     | 96.3    | 97.4    | 97.9    | 100.0   | 100.0 |  |

TOTAL NUMBER OF OBSERVATIONS: 901

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 2100-2300

| CEILING<br>IN<br>FEET | GT   | VISIBILITY IN HUNDREDS OF METERS |      |      |      |      |      |      |      |      |      |      |      |      |      |       |   |
|-----------------------|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---|
|                       |      | 160                              | 90   | 80   | 60   | 48   | 40   | 32   | 24   | 20   | 16   | 12   | 10   | 8    | 5    | 4     | 0 |
| NO CEIL               | 16.9 | 20.6                             | 21.8 | 23.4 | 24.7 | 25.7 | 26.2 | 27.8 | 28.0 | 28.1 | 28.2 | 28.2 | 28.7 | 29.1 | 29.1 | 30.5  |   |
| GE 20000              | 20.3 | 25.6                             | 27.0 | 29.0 | 30.6 | 31.7 | 32.3 | 33.9 | 34.1 | 34.3 | 34.4 | 34.4 | 34.9 | 35.4 | 35.5 | 36.9  |   |
| GE 18000              | 20.3 | 25.6                             | 27.0 | 29.0 | 30.6 | 31.7 | 32.3 | 33.9 | 34.1 | 34.3 | 34.4 | 34.4 | 34.9 | 35.4 | 35.5 | 36.9  |   |
| GE 16000              | 20.3 | 25.6                             | 27.0 | 29.0 | 30.6 | 31.7 | 32.3 | 33.9 | 34.1 | 34.3 | 34.4 | 34.4 | 34.9 | 35.4 | 35.5 | 36.9  |   |
| GE 14000              | 21.0 | 26.5                             | 27.9 | 29.9 | 31.5 | 32.6 | 33.2 | 34.8 | 35.0 | 35.2 | 35.3 | 35.3 | 35.8 | 36.3 | 36.4 | 37.8  |   |
| GE 12000              | 21.7 | 27.2                             | 28.7 | 30.8 | 32.4 | 33.6 | 34.2 | 35.9 | 36.1 | 36.3 | 36.4 | 36.4 | 36.9 | 37.5 | 37.7 | 39.0  |   |
| GE 10000              | 22.5 | 28.1                             | 29.7 | 31.8 | 33.6 | 34.7 | 35.3 | 37.0 | 37.2 | 37.4 | 37.5 | 37.5 | 38.0 | 38.8 | 38.9 | 40.2  |   |
| GE 9000               | 22.5 | 28.2                             | 29.8 | 32.0 | 33.8 | 34.9 | 35.5 | 37.2 | 37.4 | 37.7 | 37.8 | 37.8 | 38.2 | 39.0 | 39.1 | 40.4  |   |
| GE 8000               | 22.7 | 28.9                             | 30.5 | 32.7 | 34.4 | 35.5 | 36.2 | 37.9 | 38.1 | 38.3 | 38.4 | 38.4 | 39.0 | 39.8 | 39.9 | 41.2  |   |
| GE 7000               | 22.9 | 29.1                             | 30.7 | 32.9 | 34.8 | 36.0 | 36.7 | 38.3 | 38.5 | 38.8 | 38.9 | 38.9 | 39.4 | 40.2 | 40.3 | 41.6  |   |
| GE 6000               | 23.3 | 29.8                             | 31.3 | 33.7 | 35.5 | 36.9 | 37.5 | 39.2 | 39.4 | 39.6 | 39.8 | 39.8 | 40.3 | 41.1 | 41.2 | 42.5  |   |
| GE 5000               | 25.0 | 32.4                             | 34.0 | 36.4 | 38.4 | 39.8 | 40.4 | 42.1 | 42.5 | 42.7 | 42.9 | 42.9 | 43.4 | 44.2 | 44.3 | 45.7  |   |
| GE 4500               | 26.1 | 33.9                             | 35.7 | 38.2 | 40.2 | 41.5 | 42.2 | 44.1 | 44.5 | 44.9 | 45.0 | 45.0 | 45.5 | 46.3 | 46.5 | 48.0  |   |
| GE 4000               | 26.9 | 34.9                             | 36.7 | 39.3 | 41.3 | 42.6 | 43.3 | 45.3 | 45.7 | 46.1 | 46.2 | 46.2 | 46.7 | 47.5 | 47.7 | 49.2  |   |
| GE 3500               | 27.5 | 35.8                             | 37.5 | 40.3 | 42.5 | 43.9 | 44.6 | 46.8 | 47.3 | 47.6 | 47.7 | 47.7 | 48.3 | 49.1 | 49.3 | 50.7  |   |
| GE 3000               | 29.5 | 38.8                             | 41.1 | 43.9 | 46.2 | 47.7 | 48.5 | 50.8 | 51.4 | 51.8 | 51.8 | 51.8 | 52.4 | 53.2 | 53.4 | 54.8  |   |
| GE 2500               | 31.6 | 42.3                             | 44.7 | 47.7 | 50.3 | 51.9 | 52.7 | 55.1 | 55.7 | 56.0 | 56.1 | 56.1 | 56.7 | 57.5 | 57.7 | 59.1  |   |
| GE 2000               | 33.9 | 45.4                             | 48.5 | 52.2 | 55.0 | 56.8 | 57.6 | 60.0 | 60.6 | 61.0 | 61.1 | 61.1 | 61.7 | 62.5 | 62.7 | 64.1  |   |
| GE 1800               | 34.9 | 47.3                             | 50.7 | 54.4 | 57.4 | 59.1 | 60.1 | 62.7 | 63.2 | 63.7 | 63.8 | 63.8 | 64.3 | 65.1 | 65.3 | 66.8  |   |
| GE 1500               | 35.8 | 48.9                             | 52.4 | 56.6 | 59.7 | 61.5 | 62.6 | 65.3 | 66.1 | 66.6 | 66.8 | 66.8 | 67.3 | 68.1 | 68.3 | 69.8  |   |
| GE 1200               | 37.8 | 53.0                             | 56.8 | 61.6 | 64.7 | 66.6 | 67.7 | 70.4 | 71.2 | 71.7 | 71.9 | 71.9 | 72.4 | 73.3 | 73.5 | 75.0  |   |
| GE 1000               | 39.0 | 55.0                             | 58.9 | 63.9 | 67.0 | 69.2 | 70.3 | 73.1 | 74.0 | 74.4 | 74.6 | 74.6 | 75.2 | 76.1 | 76.3 | 77.9  |   |
| GE 900                | 39.1 | 55.4                             | 59.5 | 64.6 | 68.0 | 70.4 | 71.5 | 74.3 | 75.2 | 75.6 | 75.9 | 75.9 | 76.4 | 77.3 | 77.5 | 79.1  |   |
| GE 800                | 39.5 | 56.6                             | 60.8 | 66.1 | 69.9 | 72.4 | 73.5 | 76.3 | 77.2 | 77.6 | 78.0 | 78.0 | 78.5 | 79.4 | 79.6 | 81.2  |   |
| GE 700                | 40.1 | 57.7                             | 62.2 | 67.6 | 71.3 | 74.1 | 75.3 | 78.1 | 79.1 | 79.5 | 79.8 | 79.8 | 80.4 | 81.4 | 81.6 | 83.2  |   |
| GE 600                | 40.8 | 59.5                             | 64.5 | 70.1 | 73.9 | 76.9 | 78.1 | 81.2 | 82.3 | 82.7 | 83.1 | 83.1 | 83.6 | 84.6 | 84.8 | 86.5  |   |
| GE 500                | 41.0 | 60.4                             | 65.4 | 71.5 | 75.4 | 78.4 | 79.6 | 82.8 | 83.9 | 84.4 | 84.8 | 84.8 | 85.4 | 86.4 | 86.6 | 88.4  |   |
| GE 400                | 41.2 | 61.1                             | 66.6 | 72.9 | 77.0 | 80.0 | 81.3 | 84.9 | 86.0 | 86.5 | 86.9 | 86.9 | 87.5 | 88.6 | 88.8 | 90.6  |   |
| GE 300                | 41.4 | 66.9                             | 73.6 | 78.1 | 81.2 | 82.6 | 86.8 | 88.3 | 88.7 | 89.4 | 89.4 | 89.4 | 91.0 | 91.3 | 93.0 |       |   |
| GE 200                | 41.2 | 61.4                             | 67.0 | 73.9 | 78.4 | 82.1 | 83.6 | 88.4 | 89.9 | 90.6 | 91.0 | 91.0 | 91.6 | 92.7 | 92.9 | 94.7  |   |
| GE 100                | 41.2 | 61.4                             | 67.0 | 74.0 | 78.6 | 82.3 | 84.1 | 89.3 | 91.4 | 92.7 | 93.5 | 93.5 | 94.1 | 95.3 | 95.6 | 97.5  |   |
| GE 0                  | 41.2 | 61.4                             | 67.0 | 74.0 | 78.6 | 92.3 | 84.1 | 89.3 | 91.4 | 92.7 | 93.5 | 93.6 | 94.6 | 96.0 | 96.5 | 100.0 |   |

TOTAL NUMBER OF OBSERVATIONS: 903

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): ALL

| CEILING<br>IN<br>FEET |        | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |          |         |         |         |         |  |  |
|-----------------------|--------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|--|--|
|                       |        | GT<br>160                        | GE<br>90 | GE<br>40 | GE<br>60 | GE<br>48 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |  |  |
| NO CEIL               | 1      | 15.0                             | 18.9     | 19.7     | 21.0     | 21.8     | 22.3     | 22.5     | 23.3     | 23.6     | 23.9     | 23.9     | 24.0     | 24.1    | 24.3    | 24.4    | 25.2    |  |  |
| GT                    | 200001 | 20.1                             | 25.8     | 26.9     | 28.7     | 29.8     | 30.4     | 30.8     | 31.7     | 32.0     | 32.3     | 32.4     | 32.4     | 32.6    | 32.9    | 32.9    | 33.8    |  |  |
| GE                    | 180001 | 20.2                             | 26.0     | 27.1     | 28.9     | 30.0     | 30.7     | 31.0     | 32.0     | 32.3     | 32.5     | 32.6     | 32.7     | 32.8    | 33.1    | 33.2    | 34.1    |  |  |
| GE                    | 160001 | 20.2                             | 26.1     | 27.2     | 28.9     | 30.1     | 30.7     | 31.1     | 32.0     | 32.3     | 32.6     | 32.7     | 32.8     | 32.9    | 33.2    | 33.3    | 34.2    |  |  |
| GE                    | 140001 | 20.7                             | 26.7     | 27.8     | 29.6     | 30.7     | 31.4     | 31.8     | 32.8     | 33.1     | 33.4     | 33.5     | 33.5     | 33.7    | 34.0    | 34.1    | 35.0    |  |  |
| GE                    | 120001 | 21.6                             | 27.7     | 28.8     | 30.7     | 31.9     | 32.6     | 33.0     | 34.0     | 34.3     | 34.6     | 34.7     | 34.7     | 34.9    | 35.2    | 35.3    | 36.2    |  |  |
| GT                    | 100001 | 22.9                             | 29.5     | 30.7     | 32.5     | 33.7     | 34.5     | 34.9     | 36.0     | 36.3     | 36.6     | 36.7     | 36.8     | 36.9    | 37.3    | 37.4    | 38.3    |  |  |
| GE                    | 90001  | 23.5                             | 30.4     | 31.6     | 33.6     | 34.8     | 35.6     | 35.9     | 37.0     | 37.4     | 37.7     | 37.8     | 37.8     | 38.0    | 38.4    | 38.5    | 39.4    |  |  |
| GE                    | 80001  | 23.6                             | 30.6     | 31.9     | 33.9     | 35.1     | 35.9     | 36.2     | 37.3     | 37.7     | 38.0     | 38.1     | 38.2     | 38.3    | 38.7    | 38.8    | 39.8    |  |  |
| GE                    | 70001  | 23.8                             | 30.9     | 32.2     | 34.2     | 35.4     | 36.2     | 36.6     | 37.8     | 38.1     | 38.4     | 39.5     | 39.6     | 38.7    | 39.1    | 39.2    | 40.2    |  |  |
| GE                    | 60001  | 24.5                             | 31.8     | 33.2     | 35.2     | 36.5     | 37.3     | 37.8     | 38.9     | 39.2     | 39.6     | 39.6     | 39.7     | 39.9    | 40.3    | 40.4    | 41.3    |  |  |
| GE                    | 50001  | 25.8                             | 33.7     | 35.2     | 37.3     | 38.5     | 39.4     | 39.9     | 41.0     | 41.4     | 41.8     | 41.9     | 42.0     | 42.2    | 42.6    | 42.7    | 43.6    |  |  |
| GE                    | 45001  | 26.8                             | 35.1     | 36.7     | 39.0     | 40.3     | 41.2     | 41.7     | 43.0     | 43.4     | 43.8     | 43.9     | 44.0     | 44.2    | 44.6    | 44.7    | 45.7    |  |  |
| GE                    | 40001  | 27.9                             | 36.6     | 38.2     | 40.7     | 42.1     | 43.0     | 43.5     | 44.8     | 45.2     | 45.6     | 45.7     | 45.9     | 46.0    | 46.5    | 46.6    | 47.6    |  |  |
| GF                    | 35001  | 28.6                             | 37.6     | 39.3     | 41.9     | 43.3     | 44.2     | 44.8     | 46.1     | 46.6     | 47.0     | 47.1     | 47.2     | 47.4    | 47.8    | 47.9    | 48.9    |  |  |
| GF                    | 30001  | 30.9                             | 40.6     | 42.5     | 45.3     | 46.8     | 47.8     | 48.4     | 49.8     | 50.3     | 50.7     | 50.8     | 50.9     | 51.1    | 51.5    | 51.7    | 52.6    |  |  |
| GE                    | 25001  | 32.6                             | 43.1     | 45.3     | 48.2     | 50.0     | 51.1     | 51.7     | 53.3     | 53.8     | 54.2     | 54.3     | 54.4     | 54.6    | 55.1    | 55.2    | 56.2    |  |  |
| GE                    | 20001  | 35.0                             | 46.7     | 49.1     | 52.5     | 54.4     | 55.6     | 56.4     | 58.0     | 58.5     | 59.0     | 59.1     | 59.3     | 59.5    | 59.9    | 60.1    | 61.1    |  |  |
| GE                    | 18001  | 36.3                             | 48.7     | 51.2     | 54.6     | 56.7     | 57.9     | 58.8     | 60.5     | 61.0     | 61.5     | 61.6     | 61.7     | 62.0    | 62.4    | 62.6    | 63.6    |  |  |
| GE                    | 15001  | 38.1                             | 51.8     | 54.5     | 58.2     | 60.5     | 61.9     | 62.8     | 64.6     | 65.2     | 65.7     | 65.9     | 66.0     | 66.2    | 66.7    | 66.8    | 67.9    |  |  |
| GE                    | 12001  | 39.7                             | 55.3     | 58.5     | 62.5     | 65.0     | 66.5     | 67.5     | 69.4     | 70.1     | 70.6     | 70.7     | 70.9     | 71.1    | 71.6    | 71.8    | 72.8    |  |  |
| GE                    | 10001  | 40.8                             | 57.5     | 60.7     | 65.1     | 67.8     | 69.5     | 70.5     | 72.5     | 73.2     | 73.7     | 73.8     | 74.0     | 74.2    | 74.7    | 74.9    | 75.1    |  |  |
| GE                    | 9001   | 41.2                             | 58.1     | 61.5     | 66.1     | 68.9     | 70.6     | 71.7     | 73.6     | 74.3     | 74.8     | 75.0     | 75.1     | 75.4    | 75.9    | 76.0    | 77.1    |  |  |
| GE                    | 8001   | 41.6                             | 59.3     | 62.7     | 67.6     | 70.7     | 72.5     | 73.5     | 75.5     | 76.2     | 76.8     | 76.9     | 77.1     | 77.3    | 77.9    | 78.0    | 79.1    |  |  |
| GE                    | 7001   | 42.2                             | 60.7     | 64.3     | 69.6     | 72.9     | 74.7     | 75.9     | 77.9     | 78.7     | 79.2     | 79.4     | 79.5     | 79.8    | 80.3    | 80.5    | 81.5    |  |  |
| GE                    | 6001   | 42.7                             | 62.1     | 66.1     | 71.9     | 75.4     | 77.5     | 78.8     | 81.0     | 81.8     | 82.4     | 82.6     | 82.7     | 83.0    | 83.5    | 83.6    | 84.7    |  |  |
| GE                    | 5001   | 42.9                             | 62.9     | 67.1     | 73.2     | 76.9     | 79.1     | 80.5     | 82.8     | 83.6     | 84.2     | 84.4     | 84.6     | 84.8    | 85.4    | 85.5    | 86.6    |  |  |
| GF                    | 4001   | 43.2                             | 63.6     | 68.0     | 74.5     | 78.6     | 81.1     | 82.7     | 85.3     | 86.2     | 86.8     | 87.0     | 87.2     | 87.4    | 88.0    | 88.1    | 89.2    |  |  |
| GF                    | 3001   | 43.2                             | 64.0     | 68.6     | 75.6     | 80.0     | 82.7     | 84.5     | 87.5     | 88.6     | 89.2     | 89.5     | 89.6     | 89.9    | 90.5    | 90.6    | 91.7    |  |  |
| GE                    | 2001   | 43.2                             | 64.1     | 68.8     | 76.0     | 80.9     | 83.8     | 86.1     | 89.6     | 90.9     | 91.7     | 92.0     | 92.2     | 92.6    | 93.2    | 93.3    | 94.5    |  |  |
| GE                    | 1001   | 43.2                             | 64.1     | 68.8     | 76.1     | 81.1     | 84.1     | 86.5     | 90.6     | 92.3     | 93.6     | 94.2     | 94.4     | 94.8    | 95.7    | 95.8    | 97.5    |  |  |
| GE                    | 01     | 43.2                             | 64.1     | 68.8     | 76.1     | 81.1     | 84.1     | 86.6     | 90.6     | 92.3     | 93.7     | 94.3     | 94.6     | 95.1    | 96.3    | 96.7    | 100.0   |  |  |

TOTAL NUMBER OF OBSERVATIONS: 7186

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOScombe Down UK

PERIOD OF RECORD: 77-87  
MONTH: ALL HOURS(LST): ALL

| CEILING<br>IN<br>FEET | VISIBILITY IN HUNDREDS OF METERS |          |          |          |          |          |          |          |          |          |          |         |         |         |         |       |
|-----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|-------|
|                       | GT<br>160                        | GE<br>90 | GE<br>80 | GE<br>60 | GE<br>40 | GE<br>32 | GE<br>24 | GE<br>20 | GE<br>16 | GE<br>12 | GE<br>10 | GE<br>8 | GE<br>5 | GE<br>4 | GE<br>0 |       |
| NO CEIL               | 17.2                             | 22.5     | 23.5     | 25.1     | 26.7     | 26.9     | 27.4     | 28.2     | 28.5     | 28.7     | 28.8     | 28.9    | 29.0    | 29.2    | 29.3    | 29.7  |
| GE 20000              | 23.7                             | 31.0     | 32.3     | 34.3     | 35.7     | 36.5     | 37.2     | 38.1     | 38.5     | 38.8     | 38.9     | 38.9    | 39.1    | 39.4    | 39.4    | 39.9  |
| GE 18000              | 23.8                             | 31.1     | 32.5     | 34.4     | 35.8     | 36.6     | 37.3     | 38.3     | 38.6     | 38.9     | 39.0     | 39.1    | 39.2    | 39.5    | 39.6    | 40.1  |
| GE 16000              | 23.9                             | 31.1     | 32.5     | 34.5     | 35.9     | 36.7     | 37.4     | 38.3     | 38.7     | 39.0     | 39.1     | 39.2    | 39.3    | 39.6    | 39.6    | 40.1  |
| GE 14000              | 24.4                             | 31.8     | 33.2     | 35.2     | 36.7     | 37.5     | 38.1     | 39.1     | 39.5     | 39.8     | 39.9     | 39.9    | 40.1    | 40.4    | 40.4    | 40.9  |
| GE 12000              | 25.3                             | 33.1     | 34.5     | 36.6     | 38.1     | 38.9     | 39.6     | 40.6     | 41.0     | 41.3     | 41.4     | 41.5    | 41.7    | 41.9    | 42.0    | 42.5  |
| GE 10000              | 26.9                             | 35.3     | 36.8     | 39.1     | 40.7     | 41.6     | 42.3     | 43.3     | 43.7     | 44.0     | 44.1     | 44.2    | 44.4    | 44.7    | 44.7    | 45.2  |
| GE 9000               | 27.7                             | 36.4     | 38.0     | 40.4     | 42.1     | 43.0     | 43.8     | 44.9     | 45.3     | 45.6     | 45.7     | 45.8    | 46.0    | 46.2    | 46.3    | 46.8  |
| GE 8000               | 27.9                             | 36.8     | 38.4     | 40.8     | 42.5     | 43.4     | 44.2     | 45.3     | 45.7     | 46.0     | 46.2     | 46.2    | 46.4    | 46.7    | 46.8    | 47.3  |
| GE 7000               | 28.1                             | 37.1     | 38.8     | 41.2     | 42.9     | 43.9     | 44.7     | 45.8     | 46.2     | 46.5     | 46.6     | 46.7    | 46.9    | 47.2    | 47.2    | 47.7  |
| GE 6000               | 28.9                             | 38.3     | 40.0     | 42.5     | 44.2     | 45.2     | 46.0     | 47.2     | 47.6     | 47.9     | 48.0     | 48.1    | 48.3    | 48.5    | 48.6    | 49.1  |
| GE 5000               | 31.2                             | 41.3     | 43.2     | 45.9     | 47.8     | 48.8     | 49.7     | 50.9     | 51.3     | 51.7     | 51.8     | 51.9    | 52.1    | 52.4    | 52.5    | 53.0  |
| GE 4500               | 33.0                             | 43.7     | 45.6     | 48.5     | 50.4     | 51.5     | 52.4     | 53.7     | 54.2     | 54.6     | 54.7     | 54.8    | 55.0    | 55.3    | 55.3    | 55.9  |
| GE 4000               | 34.5                             | 45.6     | 47.7     | 50.6     | 52.7     | 53.8     | 54.8     | 56.1     | 56.6     | 57.0     | 57.1     | 57.2    | 57.4    | 57.7    | 57.8    | 58.3  |
| GE 3500               | 35.6                             | 47.1     | 49.1     | 52.2     | 54.3     | 55.5     | 56.4     | 57.8     | 58.3     | 58.7     | 58.9     | 59.0    | 59.1    | 59.5    | 59.5    | 60.1  |
| GE 3000               | 37.8                             | 50.0     | 52.1     | 55.4     | 57.7     | 58.8     | 59.8     | 61.3     | 61.8     | 62.2     | 62.4     | 62.5    | 62.7    | 63.0    | 63.1    | 63.6  |
| GE 2500               | 40.1                             | 53.1     | 55.4     | 58.9     | 61.3     | 62.5     | 63.5     | 65.0     | 65.6     | 66.0     | 66.2     | 66.3    | 66.5    | 66.8    | 66.9    | 67.4  |
| GE 2000               | 42.6                             | 56.7     | 59.2     | 62.9     | 65.5     | 66.8     | 67.9     | 69.5     | 70.1     | 70.6     | 70.7     | 70.8    | 71.0    | 71.3    | 71.4    | 72.0  |
| GE 1800               | 43.7                             | 58.2     | 60.8     | 64.7     | 67.3     | 68.7     | 69.8     | 71.5     | 72.1     | 72.5     | 72.7     | 72.8    | 73.0    | 73.3    | 73.4    | 73.9  |
| GE 1500               | 45.1                             | 60.4     | 63.2     | 67.3     | 70.0     | 71.4     | 72.6     | 74.4     | 75.0     | 75.5     | 75.7     | 75.8    | 76.0    | 76.3    | 76.4    | 76.9  |
| GE 1200               | 46.7                             | 63.2     | 66.2     | 70.6     | 73.7     | 75.2     | 76.4     | 78.3     | 79.0     | 79.5     | 79.7     | 79.8    | 80.0    | 80.3    | 80.4    | 81.0  |
| GE 1000               | 47.4                             | 64.7     | 67.9     | 72.6     | 75.8     | 77.4     | 78.7     | 80.7     | 81.4     | 81.9     | 82.1     | 82.2    | 82.4    | 82.8    | 82.8    | 83.4  |
| GE 900                | 47.7                             | 65.3     | 68.6     | 73.5     | 76.9     | 78.4     | 79.8     | 81.8     | 82.5     | 83.0     | 83.2     | 83.4    | 83.6    | 83.9    | 84.0    | 84.6  |
| GE 800                | 48.0                             | 66.1     | 69.5     | 74.5     | 78.1     | 79.7     | 81.1     | 83.2     | 83.9     | 84.5     | 84.7     | 84.8    | 85.0    | 85.4    | 85.4    | 86.0  |
| GE 700                | 48.3                             | 66.9     | 70.5     | 75.8     | 79.4     | 81.2     | 82.7     | 84.9     | 85.6     | 86.2     | 86.4     | 86.5    | 86.7    | 87.1    | 87.2    | 87.8  |
| GE 600                | 48.5                             | 67.7     | 71.5     | 77.0     | 80.9     | 82.9     | 84.4     | 86.8     | 87.6     | 88.2     | 88.4     | 88.5    | 88.7    | 89.1    | 89.2    | 89.7  |
| GE 500                | 48.7                             | 68.2     | 72.1     | 77.9     | 82.0     | 84.1     | 85.7     | 88.2     | 89.0     | 89.6     | 89.8     | 90.0    | 90.2    | 90.5    | 90.6    | 91.2  |
| GE 400                | 48.8                             | 68.7     | 72.7     | 78.7     | 83.1     | 85.3     | 87.1     | 89.8     | 90.7     | 91.4     | 91.6     | 91.7    | 92.0    | 92.3    | 92.4    | 93.0  |
| GE 300                | 48.8                             | 68.9     | 73.1     | 79.4     | 84.0     | 86.4     | 88.9     | 91.3     | 92.3     | 93.1     | 93.3     | 93.5    | 93.7    | 94.1    | 94.2    | 94.8  |
| GE 200                | 48.8                             | 69.0     | 73.2     | 79.7     | 84.5     | 87.1     | 89.2     | 92.9     | 93.6     | 94.5     | 94.8     | 94.9    | 95.2    | 95.6    | 95.7    | 96.3  |
| GE 100                | 48.8                             | 69.0     | 73.3     | 79.7     | 84.6     | 87.3     | 89.5     | 93.0     | 94.3     | 95.4     | 95.8     | 96.1    | 96.4    | 97.0    | 97.1    | 98.0  |
| GE 01                 | 48.8                             | 69.0     | 73.3     | 79.7     | 84.6     | 87.3     | 89.5     | 93.0     | 94.4     | 95.6     | 96.0     | 96.3    | 96.8    | 97.6    | 97.8    | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 86012

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 7P-87  
MONTH: JAN

| PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |      |      |   |     |     |     |     |   |     |      |      |      |              |
|---|------|------|---|-----|-----|-----|-----|---|-----|------|------|------|--------------|
| HOURS<br>(LST)                                    | 0    | 1    | 2 | 3   | 4   | 5   | 6   | 7 | 8   | 9    | 10   | MEAN | TOTAL<br>OBS |
| 00-02   | 12.4 | 9.2  |   | 3.4 | 3.1 | 1.7 | 3.4 |   | 5.9 | 15.7 | 45.2 | 7.0  | 884          |
| 03-05   | 11.7 | 8.3  |   | 4.5 | 3.0 | 2.9 | 3.0 |   | 4.4 | 15.8 | 46.4 | 7.1  | 891          |
| 06-08   | 7.2  | 12.6 |   | 4.9 | 4.5 | 2.5 | 3.0 |   | 3.5 | 19.3 | 42.5 | 7.0  | 891          |
| 09-11   | 3.2  | 12.2 |   | 4.8 | 3.6 | 3.6 | 3.3 |   | 6.2 | 27.4 | 35.7 | 7.3  | 883          |
| 12-14   | 2.4  | 9.9  |   | 4.9 | 3.8 | 3.5 | 5.1 |   | 6.7 | 26.0 | 37.8 | 7.5  | 886          |
| 15-17   | 2.7  | 12.2 |   | 4.9 | 4.0 | 4.3 | 4.9 |   | 5.8 | 25.9 | 35.2 | 7.3  | 892          |
| 18-20   | 7.3  | 10.4 |   | 6.1 | 4.4 | 2.5 | 4.8 |   | 3.9 | 18.2 | 42.4 | 7.1  | 891          |
| 21-23   | 11.8 | 9.8  |   | 4.2 | 2.5 | 3.0 | 3.7 |   | 4.2 | 17.7 | 43.1 | 6.9  | 887          |
| TOTALS  | 7.3  | 10.6 |   | 4.7 | 3.6 | 3.0 | 3.9 |   | 5.1 | 20.8 | 41.0 | 7.2  | 7105         |

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 79-87  
MONTH: FEB

| PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |      |      |   |     |     |     |     |   |     |      |      |      |              |
|---|------|------|---|-----|-----|-----|-----|---|-----|------|------|------|--------------|
| HOURS<br>(LST)                                    | 0    | 1    | 2 | 3   | 4   | 5   | 6   | 7 | 8   | 9    | 10   | MEAN | TOTAL<br>OBS |
| 00-02   | 13.7 | 7.3  |   | 4.0 | 3.2 | 2.9 | 3.0 |   | 4.7 | 14.4 | 46.8 | 7.0  | 833          |
| 03-05   | 12.8 | 7.5  |   | 5.3 | 2.4 | 2.4 | 3.9 |   | 3.5 | 12.9 | 49.3 | 7.1  | 837          |
| 06-08   | 8.1  | 8.1  |   | 4.0 | 2.1 | 1.7 | 2.0 |   | 3.7 | 20.9 | 49.4 | 7.6  | 842          |
| 09-11   | 5.6  | 8.2  |   | 3.9 | 1.9 | 1.2 | 2.6 |   | 5.5 | 28.1 | 42.9 | 7.8  | 837          |
| 12-14   | 4.6  | 4.6  |   | 3.7 | 5.1 | 3.7 | 2.6 |   | 7.4 | 31.2 | 37.1 | 7.8  | 841          |
| 15-17   | 4.3  | 7.6  |   | 2.5 | 3.1 | 2.9 | 4.9 |   | 8.2 | 27.8 | 38.7 | 7.7  | 834          |
| 18-20   | 6.7  | 10.3 |   | 4.4 | 4.1 | 3.0 | 3.7 |   | 5.1 | 18.8 | 43.9 | 7.3  | 836          |
| 21-23   | 11.0 | 7.8  |   | 3.6 | 2.4 | 3.6 | 2.5 |   | 4.7 | 17.4 | 47.0 | 7.3  | 834          |
| TOTALS  | 8.4  | 7.7  |   | 3.9 | 3.0 | 2.7 | 3.2 |   | 5.4 | 21.4 | 44.4 | 7.5  | 6694         |

GLOBAL CLIMATOLOGY BRANCH  
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PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: MAR

| PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |      |      |   |     |     |     |     |   |     |      |      | TOTAL<br>OBS |      |
|---|------|------|---|-----|-----|-----|-----|---|-----|------|------|--------------|------|
| HOURS<br>(LST)                                    | 0    | 1    | 2 | 3   | 4   | 5   | 6   | 7 | 8   | 9    | 10   |              |      |
| 00-02   | 12.4 | 8.9  |   | 4.3 | 4.0 | 2.8 | 3.7 |   | 5.3 | 14.6 | 43.9 | 6.9          | 922  |
| 03-05   | 10.3 | 8.1  |   | 3.8 | 4.1 | 2.1 | 3.7 |   | 4.0 | 16.4 | 47.6 | 7.2          | 923  |
| 06-08   | 4.3  | 8.9  |   | 3.7 | 3.9 | 1.4 | 3.2 |   | 5.1 | 24.8 | 44.7 | 7.7          | 924  |
| 09-11   | 2.3  | 8.4  |   | 4.1 | 4.2 | 2.0 | 5.0 |   | 6.4 | 25.8 | 41.8 | 7.8          | 921  |
| 12-14   | 1.0  | 5.0  |   | 4.2 | 5.6 | 2.9 | 7.3 |   | 6.9 | 28.0 | 39.1 | 8.0          | 918  |
| 15-17   | 1.6  | 6.5  |   | 4.1 | 4.3 | 3.8 | 5.3 |   | 8.5 | 31.1 | 34.7 | 7.8          | 922  |
| 18-20   | 3.8  | 11.7 |   | 5.0 | 5.5 | 2.9 | 5.5 |   | 5.8 | 24.0 | 35.7 | 7.2          | 921  |
| 21-23   | 10.4 | 11.0 |   | 6.0 | 5.1 | 2.8 | 4.1 |   | 5.6 | 16.1 | 38.9 | 6.7          | 922  |
| TOTALS  | 5.8  | 8.6  |   | 4.4 | 4.6 | 2.6 | 4.7 |   | 6.0 | 22.6 | 40.8 | 7.4          | 7373 |

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: APR

| PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |      |      |   |     |     |     |     |   |      |      |      | TOTAL<br>OBS |      |
|---|------|------|---|-----|-----|-----|-----|---|------|------|------|--------------|------|
| HOURS<br>(LST)                                    | 0    | 1    | 2 | 3   | 4   | 5   | 6   | 7 | 8    | 9    | 10   |              |      |
| 00-02   | 17.0 | 9.4  |   | 5.3 | 6.1 | 2.6 | 4.3 |   | 5.6  | 17.8 | 32.0 | 6.1          | 890  |
| 03-05   | 11.5 | 9.5  |   | 5.3 | 5.5 | 2.5 | 4.5 |   | 6.2  | 20.2 | 34.9 | 6.7          | 893  |
| 06-08   | 5.2  | 11.5 |   | 5.1 | 4.1 | 3.3 | 4.4 |   | 5.6  | 28.7 | 32.0 | 7.1          | 896  |
| 09-11   | 3.2  | 7.4  |   | 4.1 | 5.4 | 3.9 | 5.3 |   | 10.7 | 32.7 | 27.3 | 7.5          | 894  |
| 12-14   | 2.1  | 5.9  |   | 3.3 | 6.1 | 5.4 | 8.4 |   | 11.8 | 36.0 | 20.9 | 7.5          | 888  |
| 15-17   | 2.7  | 7.3  |   | 4.4 | 6.6 | 3.5 | 6.7 |   | 11.4 | 37.4 | 20.0 | 7.3          | 893  |
| 18-20   | 3.5  | 11.1 |   | 6.5 | 7.1 | 3.6 | 7.8 |   | 8.7  | 31.4 | 20.3 | 6.8          | 892  |
| 21-23   | 11.8 | 11.1 |   | 6.8 | 6.9 | 4.0 | 5.0 |   | 7.8  | 20.7 | 26.1 | 6.2          | 885  |
| TOTALS  | 7.1  | 9.2  |   | 5.1 | 6.0 | 3.6 | 5.8 |   | 8.5  | 28.1 | 26.7 | 6.9          | 7131 |

GLOBAL CLIMATOLOGY BRANCH  
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PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK PERIOD OF RECORD: 77-86  
MONTH: MAY

.....

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

| HOURS<br>(LST) | 0    | 1    | 2 | 3   | 4   | 5   | 6   | 7 | 8    | 9    | 10   | MEAN | TOTAL<br>OBS |
|----------------|------|------|---|-----|-----|-----|-----|---|------|------|------|------|--------------|
| 00-02          | 13.2 | 10.2 |   | 8.0 | 5.4 | 3.2 | 6.9 |   | 5.5  | 17.6 | 29.9 | 6.2  | 925          |
| 03-05          | 5.9  | 13.1 |   | 6.6 | 5.5 | 3.0 | 5.6 |   | 5.5  | 23.1 | 31.7 | 6.7  | 928          |
| 06-08          | 4.7  | 10.6 |   | 5.8 | 3.2 | 3.3 | 5.9 |   | 6.5  | 30.4 | 29.4 | 7.1  | 927          |
| 09-11          | 3.8  | 6.7  |   | 5.1 | 4.8 | 3.6 | 6.8 |   | 10.8 | 30.5 | 27.9 | 7.4  | 924          |
| 12-14          | 1.3  | 6.1  |   | 4.0 | 4.9 | 4.5 | 8.3 |   | 14.5 | 31.4 | 25.0 | 7.6  | 917          |
| 15-17          | 1.5  | 6.3  |   | 6.6 | 4.7 | 5.2 | 8.5 |   | 15.0 | 31.6 | 20.6 | 7.3  | 924          |
| 18-20          | 2.2  | 10.1 |   | 9.1 | 7.2 | 4.1 | 5.6 |   | 11.7 | 29.3 | 20.7 | 6.8  | 922          |
| 21-23          | 9.2  | 14.9 |   | 8.3 | 6.0 | 4.9 | 6.4 |   | 7.9  | 17.5 | 24.9 | 6.0  | 926          |
| TOTALS         | 5.2  | 9.8  |   | 6.7 | 5.2 | 4.0 | 6.8 |   | 9.7  | 26.4 | 26.3 | 6.9  | 7393         |

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK PERIOD OF RECORD: 77-86  
MONTH: JUN

.....

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

| HOURS<br>(LST) | 0    | 1    | 2 | 3   | 4   | 5   | 6   | 7 | 8    | 9    | 10   | MEAN | TOTAL<br>OBS |
|----------------|------|------|---|-----|-----|-----|-----|---|------|------|------|------|--------------|
| 00-02          | 11.5 | 12.4 |   | 8.1 | 3.6 | 3.8 | 4.1 |   | 6.4  | 19.9 | 30.6 | 6.3  | 880          |
| 03-05          | 6.6  | 11.7 |   | 5.8 | 4.0 | 3.5 | 5.1 |   | 7.6  | 25.1 | 30.7 | 6.9  | 883          |
| 06-08          | 4.8  | 8.4  |   | 5.9 | 4.6 | 2.9 | 5.7 |   | 8.7  | 28.4 | 30.6 | 7.2  | 883          |
| 09-11          | 3.7  | 4.8  |   | 4.7 | 6.9 | 4.8 | 6.6 |   | 10.6 | 35.5 | 22.3 | 7.4  | 889          |
| 12-14          | 1.0  | 4.9  |   | 3.5 | 6.1 | 6.1 | 7.6 |   | 11.2 | 38.8 | 20.8 | 7.6  | 884          |
| 15-17          | .9   | 6.0  |   | 4.8 | 6.4 | 5.5 | 8.4 |   | 13.0 | 35.9 | 19.1 | 7.4  | 884          |
| 18-20          | 2.2  | 9.5  |   | 7.8 | 6.6 | 5.6 | 7.0 |   | 12.2 | 30.2 | 19.0 | 6.9  | 877          |
| 21-23          | 5.6  | 14.0 |   | 6.1 | 6.6 | 4.1 | 4.9 |   | 9.5  | 25.7 | 23.5 | 6.5  | 880          |
| TOTALS         | 4.5  | 9.0  |   | 5.8 | 5.6 | 4.5 | 6.2 |   | 9.9  | 29.9 | 24.6 | 7.0  | 7060         |

GLOBAL CLIMATOLOGY BRANCH  
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PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL

.....PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER.....

| HOURS<br>(LST) | 0    | 1    | 2 | 3   | 4   | 5   | 6    | 7 | 8    | 9    | 10   | MEAN | TOTAL<br>OBS |
|----------------|------|------|---|-----|-----|-----|------|---|------|------|------|------|--------------|
| 00-02          | 13.1 | 12.0 |   | 9.0 | 7.3 | 3.8 | 6.9  |   | 6.4  | 17.0 | 24.6 | 5.8  | 907          |
| 03-05          | 6.6  | 12.6 |   | 5.0 | 5.7 | 4.4 | 4.9  |   | 8.4  | 27.6 | 24.8 | 6.7  | 913          |
| 06-08          | 4.7  | 10.7 |   | 6.2 | 3.6 | 2.3 | 6.0  |   | 7.9  | 32.3 | 26.3 | 7.1  | 900          |
| 09-11          | 3.0  | 9.3  |   | 4.4 | 3.6 | 4.9 | 6.0  |   | 10.1 | 36.0 | 22.5 | 7.3  | 910          |
| 12-14          | 1.3  | 6.4  |   | 5.7 | 5.3 | 4.9 | 9.0  |   | 12.7 | 35.9 | 18.8 | 7.4  | 900          |
| 15-17          | 1.6  | 6.0  |   | 7.0 | 7.0 | 5.3 | 10.3 |   | 12.6 | 35.9 | 14.1 | 7.1  | 910          |
| 18-20          | 3.2  | 11.5 |   | 6.4 | 5.4 | 5.3 | 7.7  |   | 13.1 | 32.6 | 14.7 | 6.7  | 905          |
| 21-23          | 8.1  | 12.0 |   | 7.8 | 7.6 | 4.4 | 9.3  |   | 9.1  | 22.0 | 19.7 | 6.1  | 905          |
| TOTALS         | 5.2  | 10.1 |   | 6.4 | 5.7 | 4.4 | 7.5  |   | 10.0 | 29.9 | 20.7 | 6.8  | 7245         |

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG

.....PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER.....

| HOURS<br>(LST) | 0    | 1    | 2 | 3   | 4   | 5   | 6    | 7 | 8    | 9    | 10   | MEAN | TOTAL<br>OBS |
|----------------|------|------|---|-----|-----|-----|------|---|------|------|------|------|--------------|
| 00-02          | 16.3 | 12.4 |   | 7.1 | 5.5 | 3.7 | 6.0  |   | 4.3  | 18.0 | 26.9 | 5.7  | 890          |
| 03-05          | 12.8 | 12.9 |   | 6.3 | 4.3 | 3.3 | 4.7  |   | 5.5  | 21.9 | 28.3 | 6.2  | 914          |
| 06-08          | 5.8  | 11.7 |   | 5.5 | 3.8 | 3.1 | 6.1  |   | 8.3  | 30.5 | 25.3 | 6.9  | 899          |
| 09-11          | 2.2  | 7.7  |   | 5.5 | 6.5 | 4.8 | 6.0  |   | 11.2 | 37.4 | 16.7 | 7.2  | 910          |
| 12-14          | 1.8  | 4.9  |   | 4.8 | 7.8 | 5.9 | 9.3  |   | 13.9 | 36.8 | 14.7 | 7.3  | 911          |
| 15-17          | 1.6  | 5.3  |   | 6.2 | 8.2 | 5.3 | 10.3 |   | 13.3 | 33.9 | 15.8 | 7.2  | 899          |
| 18-20          | 4.0  | 10.8 |   | 7.1 | 5.5 | 4.0 | 6.7  |   | 14.0 | 32.4 | 15.5 | 6.7  | 896          |
| 21-23          | 10.5 | 11.3 |   | 7.4 | 6.0 | 4.6 | 6.9  |   | 8.5  | 24.6 | 20.1 | 6.1  | 901          |
| TOTALS         | 6.9  | 9.6  |   | 6.2 | 6.0 | 4.3 | 7.0  |   | 9.9  | 29.4 | 20.7 | 6.7  | 7220         |

GLOBAL CLIMATOLOGY BRANCH  
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PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD:  
MONTH: SEP 77-86

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

| HOURS<br>(LST) | 0    | 1    | 2 | 3   | 4   | 5   | 6   | 7 | 8    | 9    | 10   | MEAN | TOTAL<br>OBS |
|----------------|------|------|---|-----|-----|-----|-----|---|------|------|------|------|--------------|
| 00-02          | 15.7 | 10.2 |   | 6.3 | 4.5 | 3.6 | 5.1 |   | 5.6  | 18.3 | 10.6 | 6.1  | 889          |
| 03-05          | 14.6 | 11.2 |   | 6.0 | 5.1 | 1.7 | 4.3 |   | 5.3  | 21.0 | 10.9 | 6.2  | 890          |
| 06-08          | 3.8  | 11.3 |   | 6.3 | 3.6 | 3.4 | 4.5 |   | 7.0  | 31.0 | 29.0 | 7.1  | 884          |
| 09-11          | 2.1  | 7.4  |   | 5.6 | 6.1 | 3.8 | 6.6 |   | 9.7  | 32.9 | 25.7 | 7.4  | 893          |
| 12-14          | 1.9  | 5.0  |   | 4.7 | 5.9 | 6.4 | 8.6 |   | 12.1 | 37.4 | 18.0 | 7.4  | 887          |
| 15-17          | 2.6  | 7.0  |   | 6.4 | 4.8 | 4.8 | 8.5 |   | 12.3 | 35.5 | 18.1 | 7.2  | 891          |
| 18-20          | 4.8  | 12.3 |   | 7.8 | 5.8 | 4.8 | 7.5 |   | 8.2  | 29.1 | 19.6 | 6.5  | 889          |
| 21-23          | 12.4 | 11.5 |   | 7.5 | 5.2 | 3.2 | 6.0 |   | 7.0  | 20.7 | 26.6 | 6.1  | 885          |
| TOTALS         | 7.2  | 9.5  |   | 6.3 | 5.1 | 4.0 | 6.4 |   | 8.4  | 28.2 | 24.8 | 6.8  | 7105         |

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD:  
MONTH: OCT 77-86

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER

| HOURS<br>(LST) | 0    | 1    | 2 | 3   | 4   | 5   | 6   | 7 | 8    | 9    | 10   | MEAN | TOTAL<br>OBS |
|----------------|------|------|---|-----|-----|-----|-----|---|------|------|------|------|--------------|
| 00-02          | 12.1 | 11.9 |   | 6.1 | 3.5 | 3.0 | 4.6 |   | 6.3  | 16.9 | 35.3 | 6.4  | 923          |
| 03-05          | 13.5 | 7.7  |   | 6.0 | 4.4 | 3.2 | 4.2 |   | 4.9  | 16.9 | 39.2 | 6.7  | 924          |
| 06-08          | 2.7  | 10.8 |   | 5.2 | 3.2 | 2.2 | 3.4 |   | 7.0  | 28.8 | 16.8 | 7.5  | 925          |
| 09-11          | 1.7  | 10.6 |   | 4.4 | 3.9 | 3.3 | 4.3 |   | 9.2  | 30.8 | 31.7 | 7.5  | 923          |
| 12-14          | .7   | 9.2  |   | 4.0 | 5.5 | 5.0 | 6.9 |   | 10.1 | 34.9 | 27.6 | 7.8  | 919          |
| 15-17          | 3.5  | 7.7  |   | 3.9 | 4.4 | 3.3 | 5.5 |   | 11.0 | 31.8 | 28.9 | 7.5  | 919          |
| 18-20          | 6.7  | 10.1 |   | 5.2 | 3.9 | 4.8 | 5.3 |   | 8.4  | 22.6 | 13.1 | 7.0  | 925          |
| 21-23          | 10.7 | 10.8 |   | 5.7 | 4.4 | 2.8 | 5.6 |   | 5.2  | 19.2 | 15.4 | 6.6  | 922          |
| TOTALS         | 6.5  | 9.4  |   | 5.1 | 4.2 | 3.5 | 5.0 |   | 7.8  | 25.2 | 33.5 | 7.1  | 7380         |

GLOBAL CLIMATOLOGY BRANCH  
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PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 037460 STATION NAME: ROLCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV

| PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |      |      |   |     |     |     |     |   |     |      |      |      | TOTAL OBS |
|---|------|------|---|-----|-----|-----|-----|---|-----|------|------|------|-----------|
| HOURS<br>(LST)                                    | 0    | 1    | 2 | 3   | 4   | 5   | 6   | 7 | 8   | 9    | 10   | MEAN | TOTAL OBS |
| 00-02   | 13.9 | 10.9 |   | 4.0 | 3.4 | 2.6 | 3.6 |   | 5.1 | 17.0 | 39.6 | 6.6  | 895       |
| 03-05   | 12.2 | 9.6  |   | 5.5 | 4.2 | 2.2 | 4.0 |   | 5.7 | 16.1 | 40.5 | 6.7  | 896       |
| 06-08   | 4.6  | 10.6 |   | 3.8 | 5.3 | 3.1 | 3.8 |   | 5.2 | 28.0 | 35.6 | 7.3  | 893       |
| 09-11   | 2.1  | 12.3 |   | 6.1 | 4.3 | 1.8 | 2.7 |   | 6.1 | 31.3 | 33.4 | 7.4  | 892       |
| 12-14   | 1.2  | 7.6  |   | 6.4 | 5.5 | 2.8 | 4.5 |   | 8.2 | 29.5 | 74.3 | 7.6  | 892       |
| 15-17   | 1.8  | 10.1 |   | 5.0 | 4.1 | 2.9 | 4.8 |   | 7.1 | 30.0 | 34.2 | 7.5  | 893       |
| 18-20   | 5.8  | 10.0 |   | 5.0 | 3.4 | 3.6 | 4.1 |   | 6.7 | 20.7 | 40.6 | 7.3  | 893       |
| 21-23   | 11.5 | 6.5  |   | 5.2 | 3.9 | 3.9 | 3.6 |   | 4.8 | 19.5 | 39.1 | 6.9  | 897       |
| TOTALS  | 6.6  | 10.0 |   | 5.1 | 4.3 | 2.9 | 3.9 |   | 6.1 | 24.0 | 37.2 | 7.2  | 7151      |

STATION NUMBER: 037460 STATION NAME: ROLCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: DEC

| PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |      |      |   |     |     |     |     |   |     |      |      |      | TOTAL OBS |
|---|------|------|---|-----|-----|-----|-----|---|-----|------|------|------|-----------|
| HOURS<br>(LST)                                    | 0    | 1    | 2 | 3   | 4   | 5   | 6   | 7 | 8   | 9    | 10   | MEAN | TOTAL OBS |
| 00-02   | 10.0 | 7.7  |   | 4.2 | 3.6 | 2.6 | 5.2 |   | 4.9 | 17.1 | 44.7 | 7.2  | 897       |
| 03-05   | 11.9 | 6.3  |   | 2.9 | 4.4 | 1.7 | 4.3 |   | 5.4 | 18.7 | 44.3 | 7.2  | 900       |
| 06-08   | 6.6  | 7.7  |   | 3.9 | 3.1 | 2.7 | 4.5 |   | 5.2 | 22.0 | 44.3 | 7.6  | 896       |
| 09-11   | 2.3  | 10.0 |   | 4.4 | 3.1 | 2.0 | 2.9 |   | 5.0 | 32.7 | 37.5 | 7.7  | 901       |
| 12-14   | 1.4  | 6.8  |   | 4.8 | 2.9 | 3.4 | 4.4 |   | 7.8 | 31.4 | 35.0 | 7.7  | 899       |
| 15-17   | 4.1  | 9.3  |   | 4.3 | 2.9 | 2.8 | 4.2 |   | 9.4 | 27.6 | 37.4 | 7.7  | 891       |
| 18-20   | 5.3  | 6.8  |   | 3.9 | 5.2 | 4.1 | 4.3 |   | 5.2 | 19.6 | 45.5 | 7.6  | 901       |
| 21-23   | 6.1  | 9.5  |   | 5.4 | 4.5 | 4.2 | 4.3 |   | 5.9 | 17.5 | 42.5 | 7.2  | 903       |
| TOTALS  | 5.7  | 6.3  |   | 4.2 | 3.7 | 2.9 | 4.3 |   | 6.1 | 23.3 | 41.4 | 7.5  | 7188      |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

| STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK |     | PERIOD OF RECORD: 77-87 |      |   |     |     |     |     |   |      |      |      |      |              |
|---|-----|-------------------------|------|---|-----|-----|-----|-----|---|------|------|------|------|--------------|
|   |     | MONTH: ALL              |      |   |     |     |     |     |   |      |      |      |      |              |
| PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER     |     |                         |      |   |     |     |     |     |   |      |      |      |      |              |
| HOURS<br>(LISTED)                                     | ALL | 0                       | 1    | 2 | 3   | 4   | 5   | 6   | 7 | 8    | 9    | 10   | MEAN | TOTAL<br>OBS |
| JAN   | ALL | 7.3                     | 10.6 |   | 4.7 | 3.6 | 3.0 | 3.9 |   | 5.1  | 27.8 | 41.0 | 7.2  | 7105         |
| FEB   | 1   | 8.4                     | 7.7  |   | 3.9 | 3.0 | 2.7 | 3.2 |   | 5.4  | 21.4 | 44.4 | 7.5  | 6694         |
| MAR   | 1   | 5.8                     | 6.6  |   | 4.4 | 4.6 | 2.6 | 4.7 |   | 6.0  | 22.6 | 40.8 | 7.4  | 7373         |
| APR   | 1   | 7.1                     | 9.2  |   | 5.1 | 6.0 | 3.6 | 5.8 |   | 8.5  | 28.1 | 26.7 | 6.9  | 7131         |
| MAY   | 1   | 5.2                     | 5.8  |   | 6.7 | 5.2 | 4.0 | 6.8 |   | 9.7  | 26.4 | 26.3 | 6.9  | 7393         |
| JUN   | 1   | 4.5                     | 9.0  |   | 5.8 | 5.6 | 4.5 | 6.2 |   | 9.9  | 29.9 | 24.6 | 7.0  | 7060         |
| JUL   | 1   | 5.2                     | 10.1 |   | 6.4 | 5.7 | 4.4 | 7.5 |   | 10.0 | 29.9 | 20.7 | 6.8  | 7245         |
| AUG   | 1   | 6.9                     | 9.6  |   | 6.2 | 6.0 | 4.3 | 7.0 |   | 9.9  | 29.4 | 20.7 | 6.7  | 7220         |
| SEP   | 1   | 7.2                     | 9.5  |   | 6.3 | 5.1 | 4.0 | 6.4 |   | 8.4  | 28.2 | 24.8 | 6.8  | 7105         |
| OCT   | 1   | 6.5                     | 5.4  |   | 5.1 | 4.2 | 3.5 | 5.0 |   | 7.8  | 25.2 | 33.5 | 7.1  | 7380         |
| NOV   | 1   | 6.6                     | 10.0 |   | 5.1 | 4.3 | 2.9 | 3.9 |   | 6.1  | 24.0 | 37.2 | 7.2  | 7151         |
| DEC   | 1   | 5.7                     | 8.3  |   | 4.2 | 3.7 | 2.9 | 4.3 |   | 6.1  | 23.3 | 41.4 | 7.5  | 7188         |
| TOTALS  | 1   | 6.4                     | 9.3  |   | 5.3 | 4.8 | 3.5 | 5.4 |   | 7.7  | 25.8 | 31.8 | 7.1  | 86045        |

|           |         |          |           |           |
|-----------|---------|----------|-----------|-----------|
| PPPPPPPP  | AAAAAA  | RRRRRRR  | TTTTTTTTT | EEEEEEEEE |
| PPPPPPPPP | AAAAAAA | RRRRRRRR | TTTTTTTTT | EEEEEEEEE |
| PP PP     | AA AA   | RR RR.   | TT        | EE        |
| PP PP     | AA AA   | RR RR    | TT        | EE        |
| PPPPPPPPP | AA AA   | RRRRRRRR | TT        | EEEEEE    |
| PPPPPPPP  | AAAAAAA | RRRRRRR  | TT        | EEEEEE    |
| PP        | AAAAAAA | RR RR    | TT        | EE        |
| PP        | AA AA   | RR RR    | TT        | EE        |
| PP        | AA AA   | RR RR    | TT        | EEEEEEEEE |
| PP        | AA AA   | RR RR    | TT        | EEEEEEEEE |

#### TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF DAILY MAXIMUM (MINIMUM AND MEAN) TEMPERATURES  
PERCENTAGE TABULATIONS PRESENTED BY 5-DEGREE FAHRENHEIT INCREMENTS PLUS THE MEAN, STANDARD DEVIATIONS AND TOTAL OBSERVATION COUNT.

THE MINIMUM TABLE ALSO INCLUDES A 33 DEGREE FAHRENHEIT VALUE.

SINCE MANY STATIONS/SITES DO NOT HAVE MAXIMUM/MINIMUM THESE TEMPERATURES WERE SELECTED BY SCANNING THE HOURLY OBSERVATIONS FOR THE HIGHEST AND LOWEST VALUES.

STATISTICS DO NOT INCLUDE INCOMPLETE MONTHS.

FOUR OR MORE COMPLETE MONTHS ARE REQUIRED FOR COMPUTING

#### EXTREME MAXIMUM AND MINIMUM VALUES

DATA DERIVED FROM EXTRACTING THE HIGH AND LOW TEMPERATURES FROM THE HOURLY OBSERVATIONS.

PRESNTED ARE THE HIGHEST (LOWEST) TEMPERATURE FOR THE MONTH FOR EACH YEAR.

ALSO PRESENTED ARE STATISTICAL VALUES WITH THE SAME LIMITATIONS MENTIONED ABOVE.

AN ASTERISK INDICATES AN INCOMPLETE MONTH.

#### MEANS AND STANDARD DEVIATIONS FOR DRY BULB (WET BULB AND DEW POINT) TEMPERATURES

DATA DERIVED FROM HOURLY OBSERVATIONS.

DATA PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESNTED ARE MEANS, STANDARD DEVIATION AND OBSERVATION COUNTS.

#### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PERCENTAGE VALUES PRESENTED IN 10 DEGREE INCREMENTS OF RELATIVE HUMIDITY.

ALSO PRESENTED ARE THE MEAN VALUES AND OBSERVATION COUNTS.

GLOBAL CLIMATOLOGY BRANCH  
USAFCATC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MAXIMUM TEMPERATURES  
FROM SUMMARY OF DAY DATA

| STATION NUMBER: 037460 |    | STATION NAME: ROSCOMBE DOWN UK |       |       |       |       |       |       |       |       |       |       | PERIOD OF RECORD: 73-87 |        |        |       |      |
|------------------------|----|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------|--------|--------|-------|------|
| TEMP(F)                |    | JAN                            | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC                     | ANNUAL |        |       |      |
| GE                     | 90 |                                |       |       |       |       | .5    | .2    |       |       |       |       |                         |        | .1     |       |      |
| GE                     | 85 |                                |       |       |       |       |       | 1.9   | 3.2   | 1.2   |       |       |                         |        | .5     |       |      |
| GE                     | 80 |                                |       |       |       |       |       | 3.1   | 7.1   | 5.5   | .7    |       |                         |        | 1.4    |       |      |
| GE                     | 75 |                                |       |       |       |       | 1.8   | 12.6  | 22.6  | 19.6  | 3.1   |       |                         |        | 4.9    |       |      |
| GE                     | 70 |                                |       |       |       |       | 1.6   | 8.1   | 26.3  | 47.0  | 41.7  | 14.0  | .7                      |        | 11.5   |       |      |
| GE                     | 65 |                                |       |       |       |       | 5.6   | 15.7  | 46.1  | 77.6  | 71.7  | 36.2  | 3.5                     |        | 21.1   |       |      |
| GE                     | 60 |                                |       |       |       |       | 1.1   | 16.4  | 37.9  | 80.7  | 96.8  | 98.2  | 78.8                    | 21.9   | 1.4    | 35.6  |      |
| GE                     | 55 | .4                             | .7    |       |       |       | 7.1   | 38.9  | 78.1  | 98.3  | 100.0 | 100.0 | 97.6                    | 65.7   | 22.1   | 4.2   | 50.5 |
| GE                     | 50 | 17.9                           | 17.1  |       |       |       | 37.6  | 72.0  | 97.0  | 100.0 |       |       | 99.8                    | 92.9   | 53.1   | 29.6  | 67.7 |
| GE                     | 45 | 47.9                           | 46.0  |       |       |       | 71.8  | 93.6  | 99.8  |       |       |       | 100.0                   | 99.3   | 79.0   | 60.2  | 82.9 |
| GE                     | 40 | 67.8                           | 70.4  |       |       |       | 94.0  | 99.6  | 100.0 |       |       |       | 100.0                   | 93.1   | 62.4   | 92.2  |      |
| GE                     | 35 | 88.8                           | 88.6  |       |       |       | 99.6  | 100.0 |       |       |       |       |                         | 99.8   | 94.7   | 97.6  |      |
| GE                     | 30 | 96.9                           | 98.6  |       |       |       | 100.0 |       |       |       |       |       |                         | 100.0  | 99.3   | 99.6  |      |
| GE                     | 25 | 99.3                           | 100.0 |       |       |       |       |       |       |       |       |       |                         |        | 100.0  |       | 99.9 |
| GE                     | 20 | 99.8                           |       |       |       |       |       |       |       |       |       |       |                         |        |        | 100.0 |      |
| GE                     | 15 | 100.0                          |       |       |       |       |       |       |       |       |       |       |                         |        |        | 100.0 |      |
| MEAN                   |    | 42.8                           | 43.0  | 47.4  | 53.3  | 58.8  | 65.7  | 69.7  | 69.1  | 63.6  | 56.1  | 49.3  | 45.4                    |        | 55.4   |       |      |
| SD                     |    | 6.557                          | 6.270 | 4.992 | 6.458 | 6.229 | 6.975 | 6.393 | 6.042 | 5.256 | 4.941 | 5.906 | 6.040                   |        | 11.286 |       |      |
| TOTAL OBS              |    | 457                            | 422   | 465   | 450   | 433   | 419   | 434   | 434   | 420   | 434   | 420   | 432                     |        | 5220   |       |      |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MINIMUM TEMPERATURES  
FROM SUMMARY OF DAY DATA

| STATION NUMBER: 037460 | STATION NAME: BOSCOMBE DOWN UK | PERIOD OF RECORD: 73-87 |       |       |       |       |       |       |       |       |       |       |        |
|------------------------|--------------------------------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| TEMP(F)                | JAN                            | FEB                     | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANNUAL |
| GE 65                  |                                |                         |       |       |       | .2    | .2    |       |       |       |       |       | .0     |
| GE 60                  |                                |                         |       |       |       | 2.1   | 7.4   | 6.0   | .5    |       |       |       | 1.3    |
| GE 55                  |                                |                         |       |       |       | .7    | 11.2  | 34.6  | 35.9  | 16.2  | 3.9   | .5    | 8.5    |
| GE 50                  |                                |                         |       |       |       | 10.2  | 50.6  | 79.3  | 78.8  | 49.3  | 18.0  | 9.5   | 24.8   |
| GE 45                  |                                |                         |       |       |       | 11.3  | 42.7  | 84.2  | 98.2  | 97.7  | 79.5  | 46.3  | 23.3   |
| GE 40                  |                                |                         |       |       |       | 40.7  | 80.1  | 97.1  | 100.0 | 100.0 | 96.9  | 77.0  | 43.3   |
| GE 35                  |                                |                         |       |       |       | 56.8  | 75.8  | 96.8  | 100.0 |       |       | 94.0  | 71.2   |
| GE 30                  |                                |                         |       |       |       | 55.9  | 70.8  | 84.0  | 98.2  |       |       | 97.7  | 80.5   |
| GE 25                  |                                |                         |       |       |       | 75.5  | 73.7  | 88.8  | 95.8  | 100.0 |       | 99.5  | 91.2   |
| GE 20                  |                                |                         |       |       |       | 90.8  | 91.7  | 98.9  | 99.8  |       |       | 100.0 | 99.0   |
| GE 15                  |                                |                         |       |       |       | 96.7  | 97.6  | 100.0 | 100.0 |       |       | 100.0 | 98.6   |
| GE 10                  |                                |                         |       |       |       | 99.3  | 100.0 |       |       |       |       | 99.5  | 99.9   |
| TOTAL OBS              |                                |                         |       |       |       | 100.0 |       |       |       |       |       | 100.0 | 100.0  |
| MEAN                   | 33.7                           | 33.4                    | 35.6  | 38.3  | 43.5  | 49.1  | 52.8  | 52.6  | 43.9  | 44.0  | 38.8  | 36.4  | 42.3   |
| SU                     | 6.883                          | 6.560                   | 5.233 | 5.180 | 4.675 | 4.784 | 4.405 | 4.301 | 5.118 | 5.829 | 7.002 | 7.459 | 8.962  |
| TOTAL OBS              | 457                            | 422                     | 465   | 450   | 433   | 419   | 434   | 434   | 420   | 434   | 420   | 432   | 5220   |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE OF OCCURRENCE OF MEAN TEMPERATURES  
FROM SUMMARY OF DAY DATA

STATION NUMBER: 037460

STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 73-87

| TEMP(F)   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANNUAL |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| GE 75     |       |       |       |       |       | 1.0   | 1.6   | .2    |       |       |       |       | .2     |
| GE 70     |       |       |       |       |       | 2.9   | 6.2   | 3.7   | .5    |       |       |       | 1.1    |
| GE 65     |       |       |       |       | .9    | 9.3   | 21.9  | 23.0  | 3.3   |       |       |       | 4.8    |
| GE 60     |       |       |       |       | .9    | 6.5   | 32.2  | 63.6  | 58.5  | 26.2  | 2.3   |       | 15.7   |
| GE 55     |       |       |       |       | .2    | 7.1   | 23.3  | 70.4  | 96.3  | 95.9  | 64.5  | 21.0  | 5.0    |
| GE 50     | 1.1   | .9    | 4.5   | 25.3  | 63.5  | 96.4  | 100.0 | 100.0 | 96.0  | 55.1  | 23.1  | 10.0  | 47.4   |
| GE 45     | 18.4  | 19.9  | 26.0  | 59.1  | 93.8  | 100.0 |       |       | 99.8  | 88.0  | 48.8  | 31.9  | 65.0   |
| GE 40     | 48.8  | 46.9  | 69.2  | 90.0  | 98.8  |       |       |       | 100.0 | 98.8  | 76.2  | 61.1  | 82.3   |
| GE 35     | 73.5  | 73.0  | 95.1  | 99.6  | 100.0 |       |       |       |       | 100.0 | 93.8  | 84.7  | 93.3   |
| GE 30     | 90.6  | 94.1  | 99.8  | 100.0 |       |       |       |       |       | 99.8  | 95.8  | 98.3  |        |
| GE 25     | 97.4  | 98.3  | 100.0 |       |       |       |       |       |       | 100.0 | 99.5  | 99.6  |        |
| GE 20     | 99.3  | 100.0 |       |       |       |       |       |       |       | 100.0 |       |       | 99.9   |
| GE 15     | 100.0 |       |       |       |       |       |       |       |       |       | 100.0 |       |        |
| MEAN      | 38.5  | 38.5  | 41.7  | 46.1  | 51.4  | 57.6  | 61.5  | 61.1  | 56.5  | 50.3  | 44.4  | 41.2  | 49.1   |
| SU        | 6.433 | 6.031 | 4.464 | 5.228 | 4.797 | 5.261 | 4.737 | 4.350 | 4.420 | 4.902 | 6.136 | 6.424 | 9.755  |
| TOTAL OBS | 457   | 422   | 465   | 450   | 433   | 419   | 434   | 434   | 420   | 434   | 420   | 432   | 5220   |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 73-87

| YEAR      | WHOLE DEGREES FAHRENHEIT |       |       |       |       |       |       |       |       |       |       |       | ALL<br>MONTHS |
|-----------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
|           | JAN                      | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   |               |
| 73        | 51                       | *51   | 59    | 62    | 69    | 77    | 78    | 84    | 80    | 64    | 59    | *53   | 84            |
| 74        | 53                       | 51    | 60    | 64    | 69    | 75    | 73    | 71    | 68    | 56    | 55    | 57    | 75            |
| 75        | 53                       | 53    | 51    | 68    | *69   | 78    | 84    | 87    | 71    | 60    | 57    | 51    | 87            |
| 76        | 55                       | 55    | 53    | 66    | 78    | 91    | 91    | 84    | 73    | 62    | 53    | 48    | 91            |
| 77        | 51                       | 53    | 62    | 59    | 73    | 73    | 79    | 77    | 70    | 64    | 59    | 55    | 79            |
| 78        | 50                       | 54    | 59    | 64    | 79    | 77    | 77    | 75    | 73    | 73    | 61    | 55    | 79            |
| 79        | 46                       | 48    | 54    | 70    | 75    | *73   | 84    | 75    | 70    | 66    | 57    | 57    | 84            |
| 80        | 52                       | 54    | 54    | 66    | 75    | 77    | 77    | 75    | 73    | 63    | 59    | 54    | 77            |
| 81        | 52                       | 54    | 59    | 68    | 70    | 77    | 77    | 82    | 75    | 61    | 59    | 50    | 62            |
| 82        | *53                      | 52    | 62    | 64    | 76    | 79    | 78    | 80    | 60    | 61    | 60    | 54    | 80            |
| 83        | 55                       | 53    | 57    | 61    | 68    | 76    | 88    | 88    | 72    | 66    | 60    | 55    | 88            |
| 84        | 53                       | 52    | 55    | 72    | 72    | 78    | 82    | 83    | 75    | 66    | 62    | 53    | 83            |
| 85        | 52                       | 55    | 56    | 66    | 71    | 75    | 82    | 73    | 74    | 74    | 58    | 57    | 82            |
| 86        | 53                       | 38    | 53    | 59    | 65    | 85    | 80    | 69    | 68    | 69    | 64    | *55   | 85            |
| 87        | 52                       | 56    | 51    | 72    |       |       |       |       |       |       |       |       |               |
| MEAN      | 52.0                     | 52.0  | 56.3  | 65.4  | 72.3  | 76.3  | 80.7  | 78.8  | 73.0  | 64.6  | 58.8  | 53.8  | 81.8          |
| S.D.      | 2.219                    | 4.469 | 3.697 | 4.154 | 4.151 | 4.733 | 4.827 | 6.028 | 3.721 | 5.064 | 2.778 | 2.887 | 5.118         |
| TOTAL OBS | 457                      | 422   | 465   | 450   | 433   | 419   | 434   | 434   | 420   | 434   | 420   | 432   | 5220          |

NOTES \* (BASED ON LESS THAN FULL MONTHS)  
# (AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

EXTREME VALUES OF MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 73-87

| YEAR      | WHOLE DEGREES FAHRENHEIT |       |       |       |       |       |       |       |       |       |       |       | ALL<br>MONTHS |
|-----------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
|           | JAN                      | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   |               |
| 73        | 26                       | *23   | 26    | 28    | 35    | 39    | 42    | 46    | 42    | 30    | 26    | *26   | *23           |
| 74        | 28                       | 30    | 30    | 32    | 32    | 39    | 44    | 44    | 35    | 32    | 33    | 32    | 28            |
| 75        | 30                       | 30    | 26    | 28    | *35   | 35    | 46    | 44    | 37    | 33    | 23    | 23    | 23            |
| 76        | 26                       | 26    | 24    | 28    | 35    | 44    | 44    | 42    | 41    | 35    | 28    | 15    | 15            |
| 77        | 23                       | 28    | 26    | 27    | 34    | 37    | 45    | 45    | 39    | 37    | 28    | 30    | 23            |
| 78        | 21                       | 18    | 30    | 23    | 37    | 37    | 45    | 45    | 41    | 34    | 23    | 23    | 18            |
| 79        | 12                       | 23    | 28    | 27    | 30    | *43   | 45    | 41    | 36    | 36    | 25    | 23    | 12            |
| 80        | 21                       | 27    | 25    | 30    | 34    | 43    | 45    | 43    | 45    | 32    | 27    | 23    | 21            |
| 81        | 27                       | 23    | 30    | 32    | 32    | 41    | 46    | 45    | 47    | 28    | 28    | 12    | 12            |
| 82        | *16                      | 26    | 28    | 29    | 32    | 45    | 45    | 45    | 41    | 31    | 26    | 26    | *16           |
| 83        | 26                       | 25    | 29    | 30    | 36    | 43    | 46    | 44    | 41    | 28    | 23    | 23    | 23            |
| 84        | 26                       | 27    | 28    | 27    | 33    | 42    | 42    | 46    | 40    | 33    | 28    | 27    | 26            |
| 85        | 17                       | 15    | 22    | 26    | 37    | 37    | 47    | 46    | 41    | 37    | 23    | 17    | 15            |
| 86        | 24                       | 16    | 21    | 29    | 37    | 38    | 43    | 41    | 38    | 34    | 33    | *31   | 16            |
| 87        | 14                       | 23    | 25    | 30    |       |       |       |       |       |       |       |       |               |
| MEAN      | 22.9                     | 24.1  | 26.5  | 28.4  | 34.2  | 40.0  | 44.6  | 44.1  | 40.0  | 32.9  | 26.7  | 22.8  | 20.1          |
| S.D.      | 5.356                    | 4.795 | 2.825 | 2.324 | 2.267 | 3.189 | 1.499 | 1.730 | 2.746 | 2.931 | 3.338 | 5.844 | 5.442         |
| TOTAL OBS | 457                      | 422   | 465   | 450   | 433   | 419   | 434   | 434   | 420   | 434   | 420   | 432   | 5220          |

NOTES \* (BASED ON LESS THAN FULL MONTHS)  
# (AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

DRY-BULB TEMPERATURES DEG F FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-87

| HOURS | STATS   | JAN     | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN    |       |
|-------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| LST   |         |         |       |       |       |       |       |       |       |       |       |       |       |        |       |
| 00-02 | MEAN    | 36.5    | 35.5  | 38.9  | 41.8  | 46.3  | 52.0  | 56.0  | 55.6  | 52.7  | 48.6  | 43.5  | 40.6  | 45.7   |       |
|       | SD      | 7.301   | 7.226 | 5.708 | 5.328 | 4.997 | 4.827 | 4.781 | 4.460 | 5.019 | 6.112 | 7.756 | 7.630 | 9.174  |       |
|       | TOT OBS | 884     | 833   | 921   | 690   | 925   | 880   | 902   | 890   | 889   | 923   | 895   | 897   | 10729  |       |
| 03-05 | MEAN    | 36.0    | 34.6  | 38.1  | 40.2  | 44.8  | 50.4  | 54.1  | 53.9  | 51.4  | 47.5  | 42.9  | 40.2  | 44.6   |       |
|       | SD      | 7.532   | 7.490 | 6.015 | 5.368 | 5.153 | 4.802 | 4.704 | 4.643 | 5.397 | 6.330 | 8.054 | 7.796 | 9.045  |       |
|       | TOT OBS | 890     | 837   | 923   | 893   | 928   | 883   | 913   | 913   | 890   | 924   | 896   | 900   | 10790  |       |
| 06-08 | MEAN    | 35.5    | 34.2  | 38.4  | 41.6  | 47.6  | 53.6  | 57.4  | 55.8  | 52.3  | 47.6  | 42.7  | 39.9  | 45.6   |       |
|       | SD      | 7.709   | 7.571 | 6.022 | 5.560 | 5.015 | 4.563 | 4.321 | 4.464 | 5.348 | 6.507 | 8.248 | 7.980 | 9.833  |       |
|       | TOT OBS | 891     | 842   | 924   | 896   | 927   | 883   | 900   | 899   | 884   | 925   | 892   | 896   | 10759  |       |
| 09-11 | MEAN    | 36.9    | 36.7  | 42.3  | 47.7  | 53.4  | 59.2  | 63.6  | 62.3  | 58.3  | 52.1  | 45.2  | 41.3  | 50.0   |       |
|       | SD      | 7.617   | 7.016 | 5.476 | 6.004 | 5.653 | 5.508 | 5.331 | 4.542 | 4.587 | 5.527 | 7.608 | 7.572 | 11.023 |       |
|       | TOT OBS | 883     | 837   | 922   | 894   | 924   | 889   | 910   | 910   | 889   | 923   | 892   | 900   | 10773  |       |
| 12-14 | MEAN    | 39.9    | 40.2  | 45.6  | 51.5  | 56.7  | 62.6  | 67.6  | 66.2  | 62.2  | 55.6  | 48.1  | 43.9  | 53.4   |       |
|       | SD      | 6.869   | 6.578 | 5.199 | 6.884 | 6.695 | 6.379 | 6.381 | 5.662 | 5.367 | 5.098 | 6.456 | 6.530 | 11.289 |       |
|       | TOT OBS | 886     | 843   | 918   | 888   | 917   | 883   | 900   | 911   | 887   | 919   | 891   | 899   | 10742  |       |
| 15-17 | MEAN    | 39.3    | 40.1  | 45.4  | 51.8  | 57.0  | 63.0  | 68.1  | 66.3  | 62.0  | 54.5  | 46.8  | 43.0  | 53.2   |       |
|       | SD      | 6.716   | 6.443 | 4.930 | 6.943 | 6.888 | 6.584 | 6.608 | 5.942 | 5.106 | 5.114 | 6.582 | 6.511 | 11.575 |       |
|       | TOT OBS | 892     | 834   | 922   | 893   | 924   | 884   | 910   | 899   | 891   | 919   | 893   | 891   | 10752  |       |
| 18-20 | MEAN    | 37.4    | 37.4  | 42.1  | 47.7  | 53.4  | 59.6  | 64.2  | 61.9  | 57.3  | 50.9  | 44.4  | 41.3  | 49.9   |       |
|       | SD      | 7.015   | 6.506 | 4.812 | 6.130 | 6.287 | 5.904 | 6.008 | 5.286 | 4.530 | 5.086 | 7.109 | 7.108 | 10.892 |       |
|       | TOT OBS | 892     | 837   | 921   | 892   | 922   | 877   | 905   | 896   | 889   | 925   | 893   | 901   | 10750  |       |
| 21-23 | MEAN    | 36.7    | 36.2  | 39.8  | 43.7  | 48.8  | 54.5  | 58.6  | 57.4  | 53.9  | 49.2  | 43.5  | 40.7  | 47.0   |       |
|       | SD      | 7.230   | 6.880 | 5.231 | 5.269 | 5.335 | 5.011 | 5.029 | 4.427 | 4.537 | 5.586 | 7.458 | 7.479 | 9.584  |       |
|       | TOT OBS | 886     | 835   | 922   | 885   | 926   | 880   | 905   | 901   | 884   | 921   | 897   | 903   | 10745  |       |
| ALL   | MEAN    | 37.3    | 36.9  | 41.3  | 45.7  | 51.0  | 56.9  | 61.2  | 59.9  | 56.3  | 50.7  | 44.6  | 41.4  | 48.7   |       |
|       | SD      | 7.397   | 7.295 | 6.131 | 7.326 | 7.295 | 7.131 | 7.918 | 6.758 | 6.402 | 6.301 | 7.653 | 7.459 | 10.842 |       |
|       | HOURS   | TOT OBS | 7104  | 6698  | 7373  | 7131  | 7393  | 7059  | 7245  | 7219  | 7103  | 7379  | 7149  | 7187   | 86040 |

GLOBAL CLIMATOLOGY BRANCH  
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WET-BULB TEMPERATURES DEG F FROM  
HOURLY OBSERVATIONS

## MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-87

| HOURS | STATS   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| LST   |         |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 00-02 | MEAN    | 35.3  | 34.3  | 37.7  | 39.9  | 44.5  | 50.3  | 54.1  | 53.9  | 51.2  | 47.3  | 42.2  | 39.4  | 44.2  |
| 00-02 | SD      | 7.130 | 7.246 | 5.783 | 5.094 | 4.779 | 4.610 | 4.483 | 4.382 | 5.091 | 6.085 | 7.738 | 7.431 | 8.980 |
| 00-02 | TOT OBS | 884   | 933   | 921   | 890   | 925   | 880   | 902   | 890   | 888   | 923   | 895   | 897   | 10728 |
| 03-05 | MEAN    | 34.8  | 33.6  | 37.1  | 38.8  | 43.5  | 49.1  | 52.8  | 52.7  | 50.2  | 46.4  | 41.7  | 39.0  | 43.4  |
| 03-05 | SD      | 7.339 | 7.463 | 5.983 | 5.189 | 5.029 | 4.729 | 4.611 | 4.572 | 5.424 | 6.287 | 7.960 | 7.572 | 8.945 |
| 03-05 | TOT OBS | 890   | 837   | 922   | 893   | 928   | 683   | 913   | 913   | 890   | 924   | 896   | 900   | 10789 |
| 06-08 | MEAN    | 34.4  | 33.3  | 37.3  | 39.9  | 45.6  | 51.4  | 54.9  | 54.1  | 50.9  | 46.5  | 41.4  | 38.9  | 44.1  |
| 06-08 | SD      | 7.470 | 7.547 | 5.974 | 5.236 | 4.668 | 4.301 | 3.992 | 4.226 | 5.287 | 6.454 | 8.162 | 7.745 | 9.432 |
| 06-08 | TOT OBS | 891   | 842   | 924   | 896   | 926   | 883   | 898   | 899   | 884   | 925   | 892   | 895   | 10755 |
| 09-11 | MEAN    | 35.5  | 35.2  | 40.0  | 43.5  | 48.6  | 54.1  | 57.8  | 57.2  | 54.5  | 49.6  | 43.3  | 40.0  | 46.7  |
| 09-11 | SD      | 7.355 | 7.125 | 5.353 | 5.049 | 4.504 | 4.676 | 4.192 | 3.656 | 4.200 | 5.329 | 7.584 | 7.390 | 9.633 |
| 09-11 | TOT OBS | 683   | 837   | 921   | 894   | 924   | 689   | 910   | 910   | 888   | 923   | 892   | 900   | 10771 |
| 12-14 | MEAN    | 37.6  | 37.5  | 41.6  | 45.0  | 49.8  | 55.6  | 59.3  | 58.5  | 55.9  | 51.3  | 45.1  | 41.9  | 48.3  |
| 12-14 | SD      | 6.682 | 6.749 | 5.034 | 5.211 | 4.746 | 4.928 | 4.470 | 3.925 | 4.289 | 4.914 | 6.732 | 6.536 | 9.276 |
| 12-14 | TOT OBS | 886   | 943   | 917   | 887   | 917   | 683   | 900   | 911   | 887   | 919   | 891   | 899   | 10740 |
| 15-17 | MEAN    | 37.2  | 37.3  | 41.5  | 45.0  | 49.8  | 55.7  | 59.4  | 58.6  | 55.7  | 50.8  | 44.4  | 41.3  | 48.1  |
| 15-17 | SD      | 6.639 | 6.671 | 4.851 | 5.080 | 4.828 | 4.853 | 4.313 | 3.903 | 4.375 | 5.006 | 6.812 | 6.560 | 9.373 |
| 15-17 | TOT OBS | 892   | 833   | 921   | 893   | 924   | 683   | 909   | 899   | 891   | 919   | 893   | 891   | 10748 |
| 18-20 | MEAN    | 35.9  | 35.6  | 39.7  | 43.3  | 48.4  | 54.4  | 58.1  | 57.1  | 53.6  | 48.9  | 42.8  | 40.1  | 46.5  |
| 18-20 | SD      | 6.976 | 6.758 | 5.088 | 4.996 | 4.863 | 4.702 | 4.295 | 4.015 | 4.460 | 5.320 | 7.192 | 7.047 | 9.486 |
| 18-20 | TOT OBS | 892   | 837   | 921   | 892   | 922   | 876   | 905   | 896   | 889   | 925   | 893   | 901   | 10749 |
| 21-23 | MEAN    | 35.4  | 34.9  | 38.2  | 41.1  | 45.9  | 51.8  | 55.5  | 55.0  | 52.0  | 47.7  | 42.2  | 39.5  | 45.0  |
| 21-23 | SD      | 7.088 | 7.047 | 5.409 | 4.897 | 4.723 | 4.438 | 4.328 | 4.111 | 4.763 | 5.707 | 7.459 | 7.280 | 9.109 |
| 21-23 | TOT OBS | 886   | 835   | 922   | 885   | 925   | 880   | 905   | 900   | 884   | 921   | 897   | 903   | 10743 |
| ALL   | MEAN    | 35.8  | 35.2  | 39.1  | 42.1  | 47.0  | 52.8  | 56.5  | 55.9  | 53.0  | 48.6  | 42.9  | 40.0  | 45.8  |
| ALL   | SD      | 7.164 | 7.228 | 5.708 | 5.588 | 5.294 | 5.209 | 4.922 | 4.613 | 5.189 | 5.928 | 7.566 | 7.272 | 9.451 |
| ALL   | TOT OBS | 7104  | 6697  | 7369  | 7130  | 7391  | 7057  | 7242  | 7218  | 7101  | 7379  | 7149  | 7186  | 86023 |

GLOBAL CLIMATOLOGY BRANCH  
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DEW-POINT TEMPERATURES DEG F FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-87

| HOURS | STATS   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV   | DEC   | ANN   |
|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| LST   |         |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 00-02 | MEAN    | 33.4  | 32.4  | 35.9  | 37.6  | 42.6  | 48.9  | 52.7  | 52.7  | 50.0  | 46.2  | 40.8  | 38.0  | 42.7  |
| 00-02 | SD      | 7.830 | 8.360 | 6.633 | 5.866 | 5.544 | 5.079 | 4.662 | 4.643 | 5.523 | 6.461 | 8.333 | 7.921 | 9.576 |
| 00-02 | TOT OBS | 884   | 933   | 921   | 890   | 925   | 880   | 902   | 890   | 886   | 923   | 895   | 897   | 10728 |
| 03-05 | MEAN    | 33.0  | 31.7  | 35.6  | 37.0  | 42.0  | 48.0  | 51.9  | 51.9  | 49.3  | 45.5  | 40.3  | 37.6  | 42.1  |
| 03-05 | SD      | 7.983 | 8.535 | 6.639 | 5.669 | 5.561 | 5.106 | 4.748 | 4.691 | 5.727 | 6.640 | 8.491 | 7.994 | 9.538 |
| 03-05 | TOT OBS | 890   | 837   | 922   | 893   | 928   | 883   | 913   | 913   | 890   | 924   | 896   | 900   | 10789 |
| 06-08 | MEAN    | 32.5  | 31.5  | 35.7  | 37.6  | 43.4  | 49.5  | 53.1  | 52.9  | 49.8  | 45.5  | 40.0  | 37.5  | 42.5  |
| 06-08 | SD      | 8.113 | 8.581 | 6.644 | 5.797 | 5.373 | 4.944 | 4.378 | 4.399 | 5.570 | 6.778 | 8.687 | 8.173 | 9.877 |
| 06-08 | TOT OBS | 891   | 842   | 924   | 896   | 926   | 883   | 898   | 899   | 884   | 925   | 892   | 895   | 10755 |
| 09-11 | MEAN    | 33.3  | 32.8  | 37.0  | 38.6  | 43.7  | 49.9  | 53.5  | 53.3  | 51.4  | 47.3  | 41.2  | 38.3  | 43.4  |
| 09-11 | SD      | 8.081 | 8.462 | 6.512 | 6.294 | 6.087 | 5.807 | 5.184 | 4.735 | 5.217 | 6.042 | 8.414 | 7.984 | 9.824 |
| 09-11 | TOT OBS | 883   | 837   | 921   | 894   | 924   | 889   | 910   | 910   | 886   | 923   | 892   | 900   | 10771 |
| 12-14 | MEAN    | 34.4  | 33.4  | 36.6  | 37.6  | 43.0  | 49.9  | 53.3  | 52.7  | 50.7  | 47.3  | 41.7  | 39.4  | 43.4  |
| 12-14 | SD      | 7.880 | 8.729 | 7.265 | 6.821 | 6.798 | 6.162 | 5.516 | 5.179 | 5.826 | 6.307 | 8.342 | 7.493 | 9.763 |
| 12-14 | TOT OBS | 886   | 843   | 917   | 887   | 917   | 883   | 900   | 911   | 887   | 919   | 891   | 899   | 10740 |
| 15-17 | MEAN    | 34.3  | 33.2  | 36.3  | 37.3  | 42.8  | 49.8  | 53.0  | 52.8  | 50.5  | 47.3  | 41.6  | 39.2  | 43.2  |
| 15-17 | SD      | 7.865 | 8.769 | 7.307 | 6.955 | 6.980 | 6.020 | 5.199 | 5.110 | 6.067 | 6.324 | 8.178 | 7.389 | 9.805 |
| 15-17 | TOT OBS | 892   | 833   | 921   | 893   | 924   | 883   | 909   | 899   | 891   | 919   | 893   | 891   | 10748 |
| 18-20 | MEAN    | 33.6  | 32.8  | 36.5  | 38.0  | 43.3  | 50.1  | 53.5  | 53.4  | 50.8  | 46.9  | 41.0  | 38.4  | 43.3  |
| 18-20 | SD      | 7.961 | 8.336 | 6.700 | 6.563 | 6.641 | 5.634 | 4.947 | 4.712 | 5.576 | 6.208 | 8.092 | 7.65  | 9.824 |
| 18-20 | TOT OBS | 892   | 837   | 921   | 892   | 922   | 876   | 905   | 905   | 889   | 925   | 893   | 901   | 10749 |
| 21-23 | MEAN    | 33.5  | 32.6  | 36.0  | 37.6  | 43.0  | 49.6  | 53.2  | 53.1  | 50.4  | 46.4  | 40.6  | 38.0  | 42.9  |
| 21-23 | SD      | 7.839 | 8.313 | 6.487 | 5.945 | 5.906 | 4.999 | 4.615 | 4.499 | 5.453 | 6.306 | 8.112 | 7.777 | 9.645 |
| 21-23 | TOT OBS | 886   | 835   | 922   | 885   | 925   | 880   | 905   | 900   | 884   | 921   | 897   | 903   | 10743 |
| ALL   | MEAN    | 33.5  | 32.5  | 36.2  | 37.7  | 43.0  | 49.5  | 53.0  | 52.9  | 50.4  | 46.6  | 40.9  | 38.3  | 42.9  |
| ALL   | SD      | 7.962 | 8.531 | 6.791 | 6.264 | 6.155 | 5.523 | 4.942 | 4.771 | 5.654 | 6.426 | 8.348 | 7.830 | 9.743 |
| ALL   | TOT OBS | 7104  | 6697  | 7369  | 7130  | 7391  | 7057  | 7242  | 7218  | 7101  | 7379  | 7149  | 7186  | 86023 |

GLOBAL CLIMATOLOGY BRANCH  
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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

| STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK |                | PERIOD OF RECORD: 78-87                                |       |       |       |       |      |      |      | RELATIVE HUMIDITY |           |
|---|----------------|--|-------|-------|-------|-------|------|------|------|-------------------|-----------|
| MONTH   | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      | MEAN              | TOTAL     |
|   |                | 10%  | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | RELATIVE HUMIDITY | NUM OBS   |
| JAN   | 00-02          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 96.6 | 84.0 | 48.0              | 88.5 884  |
|   | 03-05          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 97.9 | 84.7 | 52.8              | 89.1 890  |
|   | 06-08          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.8 | 97.3 | 85.4 | 51.3              | 88.9 891  |
|   | 09-11          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.4 | 94.2 | 75.3 | 43.9              | 86.9 883  |
|   | 12-14          | 100.0  | 100.0 | 100.0 | 100.0 | 99.1  | 95.1 | 78.8 | 55.0 | 27.2              | 81.3 886  |
|   | 15-17          | 100.0  | 100.0 | 100.0 | 99.9  | 99.0  | 96.5 | 85.5 | 60.2 | 27.7              | 82.4 892  |
|   | 18-20          | 100.0  | 100.0 | 100.0 | 99.9  | 99.6  | 99.0 | 94.6 | 77.7 | 39.3              | 86.5 892  |
|   | 21-23          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.7 | 97.1 | 84.3 | 46.4              | 88.3 886  |
|   | TOTALS         | 100.0  | 100.0 | 100.0 | 100.0 | 99.7  | 98.7 | 92.8 | 75.8 | 42.1              | 86.5 7104 |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 78-87  
MONTH: FEB

| MONTH | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      | MEAN | TOTAL |      |
|-------|----------------|--|-------|-------|-------|-------|------|------|------|------|-------|------|
|       |                | 10%  | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  |      |       |      |
| FEB   | 00-02          | 100.0  | 100.0 | 100.0 | 100.0 | 99.9  | 99.2 | 96.3 | 84.4 | 50.1 | 88.6  | 833  |
|       | 03-05          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.5 | 96.9 | 86.5 | 55.6 | 89.4  | 837  |
|       | 06-08          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.6 | 96.8 | 87.9 | 56.8 | 89.7  | 842  |
|       | 09-11          | 100.0  | 100.0 | 100.0 | 100.0 | 99.5  | 98.3 | 89.7 | 72.6 | 43.8 | 86.1  | 837  |
|       | 12-14          | 100.0  | 100.0 | 99.9  | 99.3  | 97.6  | 88.0 | 66.2 | 45.1 | 22.7 | 77.6  | 842  |
|       | 15-17          | 100.0  | 100.0 | 100.0 | 98.9  | 96.5  | 87.3 | 67.3 | 45.1 | 18.7 | 77.1  | 833  |
|       | 18-20          | 100.0  | 100.0 | 100.0 | 99.9  | 99.6  | 97.6 | 89.0 | 64.8 | 30.0 | 83.7  | 837  |
|       | 21-23          | 100.0  | 100.0 | 100.0 | 100.0 | 99.8  | 99.2 | 94.9 | 77.7 | 40.5 | 86.8  | 835  |
|       | TOTALS         | 100.0  | 100.0 | 100.0 | 99.8  | 99.1  | 96.1 | 87.1 | 70.5 | 39.8 | 84.9  | 6697 |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 74-87  
MONTH: MAR

| MONTH | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NUM<br>OBS |      |
|-------|----------------|--|-------|-------|-------|-------|------|------|------|------------------------------|---------------------|------|
|       |                | 10%  | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  |                              |                     |      |
| MAR   | 00-02          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 96.0 | 84.9 | 51.9                         | 89.0                | 921  |
|       | 03-05          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.9 | 97.5 | 90.5 | 54.8                         | 90.6                | 922  |
|       | 06-08          | 100.0  | 100.0 | 100.0 | 100.0 | 99.9  | 99.7 | 97.0 | 88.7 | 61.2                         | 90.4                | 924  |
|       | 09-11          | 100.0  | 100.0 | 100.0 | 100.0 | 99.3  | 93.4 | 79.3 | 57.2 | 33.1                         | 82.0                | 921  |
|       | 12-14          | 100.0  | 99.9  | 99.6  | 98.6  | 91.1  | 72.3 | 53.1 | 34.5 | 18.3                         | 72.3                | 917  |
|       | 15-17          | 100.0  | 100.0 | 99.5  | 97.7  | 88.2  | 72.9 | 55.4 | 35.6 | 16.1                         | 72.0                | 921  |
|       | 18-20          | 100.0  | 100.0 | 100.0 | 99.9  | 98.7  | 93.3 | 79.0 | 58.1 | 27.7                         | 81.2                | 921  |
|       | 21-23          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.0 | 93.5 | 73.6 | 43.5                         | 86.5                | 922  |
|       | TOTALS         | 100.0  | 100.0 | 99.9  | 99.5  | 97.2  | 91.3 | 81.4 | 65.4 | 38.7                         | 83.0                | 7369 |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

### RELATIVE HUMIDITY

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 79-87

PERIOD OF  
MONTH: APR

| MONTH | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |      |      |      |      |      | MEAN<br>[RELATIVE<br>HUMIDITY] | TOTAL<br>NUM<br>OBS |
|-------|----------------|--|-------|-------|-------|------|------|------|------|------|--------------------------------|---------------------|
|       |                | 10%  | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  |                                |                     |
| APR   | 00-02          | 100.0  | 100.0 | 100.0 | 99.9  | 99.0 | 98.1 | 92.2 | 71.2 | 39.3 | 85.5                           | 896                 |
|       | 03-05          | 100.0  | 100.0 | 100.0 | 100.0 | 99.9 | 99.6 | 96.6 | 82.9 | 49.6 | 88.4                           | 893                 |
|       | 06-08          | 100.0  | 100.0 | 100.0 | 100.0 | 99.8 | 98.1 | 91.9 | 74.3 | 40.3 | 86.1                           | 896                 |
|       | 09-11          | 100.0  | 100.0 | 99.9  | 98.3  | 93.2 | 76.1 | 55.0 | 29.6 | 13.0 | 72.1                           | 894                 |
|       | 12-14          | 100.0  | 99.8  | 98.8  | 91.2  | 72.4 | 47.9 | 30.2 | 15.4 | 5.3  | 61.5                           | 887                 |
|       | 15-17          | 100.0  | 99.6  | 97.3  | 88.4  | 67.7 | 47.6 | 28.9 | 15.2 | 5.8  | 60.4                           | 893                 |
|       | 18-20          | 100.0  | 100.0 | 99.1  | 96.1  | 88.0 | 73.9 | 53.0 | 30.3 | 12.8 | 70.9                           | 892                 |
|       | 21-23          | 100.0  | 100.0 | 100.0 | 99.2  | 97.7 | 92.9 | 78.3 | 55.8 | 23.8 | 80.4                           | 885                 |
|       | TOTALS         | 100.0  | 99.9  | 99.4  | 96.7  | 89.7 | 79.3 | 65.8 | 46.8 | 23.7 | 75.7                           | 7130                |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: MAY

| MONTH/HOURS<br>(LST) |        | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NUM<br>OBS |
|----------------------|--------|--|-------|-------|-------|------|------|------|------|------|------------------------------|---------------------|
|                      |        | 10%  | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                     |
| MAY                  | 00-02  | 100.0  | 100.0 | 100.0 | 99.9  | 99.4 | 97.6 | 91.8 | 79.5 | 51.1 | 87.3                         | 925                 |
|                      | 03-05  | 100.0  | 100.0 | 100.0 | 100.0 | 99.9 | 99.1 | 96.0 | 85.5 | 63.3 | 90.0                         | 928                 |
|                      | 06-08  | 100.0  | 100.0 | 100.0 | 99.9  | 99.8 | 96.8 | 90.5 | 72.9 | 39.8 | 85.7                         | 926                 |
|                      | 09-11  | 100.0  | 100.0 | 99.7  | 97.5  | 88.6 | 74.9 | 54.7 | 31.6 | 13.3 | 71.5                         | 924                 |
|                      | 12-14  | 100.0  | 99.7  | 96.7  | 90.1  | 75.1 | 53.1 | 34.9 | 17.8 | 7.2  | 62.8                         | 917                 |
|                      | 15-17  | 100.0  | 99.4  | 95.9  | 87.6  | 71.5 | 52.1 | 32.6 | 16.6 | 6.3  | 61.8                         | 924                 |
|                      | 18-20  | 100.0  | 99.7  | 98.6  | 94.8  | 86.1 | 74.2 | 55.5 | 30.5 | 11.7 | 70.7                         | 922                 |
|                      | 21-23  | 100.0  | 100.0 | 99.7  | 99.0  | 97.2 | 89.0 | 80.3 | 60.6 | 31.5 | 81.5                         | 925                 |
|                      | TOTALS | 100.0  | 99.9  | 98.8  | 96.1  | 89.7 | 79.6 | 67.0 | 49.4 | 29.0 | 76.4                         | 7391                |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

### RELATIVE HUMIDITY

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUN

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>OBS |
|--------|----------------|--|-------|-------|-------|------|------|------|------|------|------------------------------|--------------|
|        |                | 10%  | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  |                              |              |
| JUN    | 00-02          | 100.0  | 100.0 | 100.0 | 99.8  | 99.4 | 98.8 | 96.5 | 86.1 | 56.6 | 89.4                         | 886          |
|        | 03-05          | 100.0  | 100.0 | 100.0 | 100.0 | 99.8 | 99.2 | 98.5 | 92.5 | 66.3 | 91.7                         | 883          |
|        | 06-08          | 100.0  | 100.0 | 99.9  | 99.8  | 99.8 | 98.4 | 93.3 | 71.9 | 39.2 | 86.1                         | 883          |
|        | 09-11          | 100.0  | 100.0 | 99.9  | 99.7  | 96.9 | 79.2 | 55.1 | 25.1 | 9.3  | 72.1                         | 889          |
|        | 12-14          | 100.0  | 100.0 | 99.7  | 97.3  | 84.9 | 55.8 | 32.2 | 14.0 | 4.4  | 64.5                         | 883          |
|        | 15-17          | 100.0  | 100.0 | 99.8  | 96.5  | 82.2 | 54.0 | 32.0 | 13.8 | 4.6  | 63.8                         | 883          |
|        | 18-20          | 100.0  | 100.0 | 99.9  | 99.2  | 94.3 | 77.7 | 55.0 | 26.1 | 8.7  | 71.8                         | 876          |
|        | 21-23          | 100.0  | 100.0 | 100.0 | 99.7  | 99.2 | 96.5 | 88.2 | 65.6 | 31.6 | 83.9                         | 880          |
| TOTALS |                | 100.0  | 100.0 | 99.9  | 99.1  | 94.6 | 82.5 | 68.9 | 49.4 | 27.6 | 77.9                         | 7057         |

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: JUL

| MONTH | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      |      | MEAN<br>[RELATIVE<br>HUMIDITY] | TOTAL<br>NUM<br>OBS |
|-------|----------------|--|-------|-------|-------|-------|------|------|------|------|--------------------------------|---------------------|
|       |                | 10%  | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | 90%  |                                |                     |
| JUL   | 00-02          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.6 | 98.1 | 84.8 | 49.4 | 88.8                           | 902                 |
|       | 03-05          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.6 | 94.7 | 68.5 | 92.0 | 913                            |                     |
|       | 06-08          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.3 | 94.1 | 70.4 | 36.3 | 85.8                           | 898                 |
|       | 09-11          | 100.0  | 100.0 | 99.9  | 99.5  | 94.5  | 76.8 | 47.6 | 21.9 | 8.4  | 70.7                           | 910                 |
|       | 12-14          | 100.0  | 100.0 | 99.9  | 96.1  | 77.1  | 47.7 | 23.6 | 10.4 | 4.0  | 61.7                           | 900                 |
|       | 15-17          | 100.0  | 100.0 | 99.9  | 94.1  | 72.7  | 42.9 | 22.2 | 9.9  | 3.2  | 60.2                           | 905                 |
|       | 18-20          | 100.0  | 100.0 | 100.0 | 99.3  | 91.3  | 72.6 | 47.6 | 19.8 | 6.4  | 69.4                           | 905                 |
|       | 21-23          | 100.0  | 100.0 | 100.0 | 100.0 | 99.9  | 97.6 | 87.1 | 59.1 | 21.8 | 82.4                           | 905                 |
|       | TOTALS         | 100.0  | 100.0 | 100.0 | 98.7  | 91.9  | 79.6 | 65.0 | 46.4 | 24.6 | 76.4                           | 7242                |

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: AUG

| MONTH | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |       |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NUM<br>OBS |
|-------|----------------|--|-------|-------|-------|-------|-------|------|------|------|------------------------------|---------------------|
|       |                | 10%  | 20%   | 30%   | 40%   | 50%   | 60%   | 70%  | 80%  | 90%  |                              |                     |
| AUG   | 00-02          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.7 | 88.7 | 57.0 | 90.1                         | 896                 |
|       | 03-05          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.7 | 96.4 | 73.5 | 93.0                         | 913                 |
|       | 06-08          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.9  | 98.0 | 87.4 | 57.6 | 89.8                         | 899                 |
|       | 09-11          | 100.0  | 100.0 | 100.0 | 99.7  | 96.8  | 81.3  | 59.3 | 29.8 | 11.4 | 73.5                         | 910                 |
|       | 12-14          | 100.0  | 100.0 | 100.0 | 96.4  | 80.8  | 49.5  | 28.6 | 14.3 | 6.1  | 63.3                         | 911                 |
|       | 15-17          | 100.0  | 100.0 | 99.8  | 96.3  | 78.3  | 51.3  | 29.7 | 15.8 | 7.3  | 63.6                         | 899                 |
|       | 18-20          | 100.0  | 100.0 | 100.0 | 99.8  | 95.9  | 83.6  | 63.8 | 34.2 | 12.7 | 74.8                         | 896                 |
|       | 21-23          | 100.0  | 100.0 | 100.0 | 100.0 | 99.8  | 98.4  | 93.4 | 73.1 | 33.8 | 85.8                         | 900                 |
|       | TOTALS         | 100.0  | 100.0 | 100.0 | 99.7  | 94.0  | 83.0  | 71.4 | 55.0 | 31.8 | 79.2                         | 7218                |

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 037460 STATION NAME: BOScombe DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: SEP

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |       |       |      |      | MEAN<br>(RELATIVE<br>HUMIDITY) | TOTAL<br>NUM<br>OBS |
|--------|----------------|--|-------|-------|-------|-------|-------|-------|------|------|--------------------------------|---------------------|
|        |                | 10%  | 20%   | 30%   | 40%   | 50%   | 60%   | 70%   | 80%  | 90%  |                                |                     |
| SEP    | 00-02          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.1  | 89.8 | 58.4 | 90.6                           | 888                 |
|        | 03-05          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 95.2 | 70.1 | 92.4                           | 890                 |
|        | 06-08          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.5  | 90.7 | 63.6 | 91.3                           | 884                 |
|        | 09-11          | 100.0  | 100.0 | 100.0 | 100.0 | 99.0  | 91.3  | 73.0  | 42.8 | 18.9 | 78.5                           | 888                 |
|        | 12-14          | 100.0  | 100.0 | 100.0 | 99.7  | 88.3  | 62.8  | 41.0  | 18.2 | 6.9  | 67.2                           | 887                 |
|        | 15-17          | 100.0  | 100.0 | 100.0 | 98.2  | 86.6  | 66.4  | 41.3  | 18.1 | 8.2  | 67.4                           | 891                 |
|        | 18-20          | 100.0  | 100.0 | 100.0 | 100.0 | 98.9  | 92.7  | 79.6  | 47.7 | 17.8 | 79.4                           | 889                 |
|        | 21-23          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.8  | 97.4  | 80.5 | 40.3 | 87.7                           | 884                 |
| TOTALS |                | 100.0  | 100.0 | 100.0 | 99.7  | 96.6  | 89.1  | 78.9  | 60.4 | 35.5 | 81.8                           | 7101                |

GLOBAL CLIMATOLOGY BRANCH  
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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

### RELATIVE HUMIDITY

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: OCT

| MONTH | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |       |      |      |      | MEAN<br>[RELATIVE<br>HUMIDITY] | TOTAL<br>NUM<br>OBS |
|-------|----------------|--|-------|-------|-------|-------|-------|------|------|------|--------------------------------|---------------------|
|       |                | 10%  | 20%   | 30%   | 40%   | 50%   | 60%   | 70%  | 80%  | 90%  |                                |                     |
| OCT   | 00-02          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.2 | 93.3 | 61.5 | 91.4                           | 923                 |
|       | 03-05          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.5 | 94.4 | 70.3 | 92.7                           | 924                 |
|       | 06-08          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.8 | 94.7 | 68.8 | 92.5                           | 925                 |
|       | 09-11          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 98.5  | 89.4 | 63.1 | 32.8 | 84.2                           | 923                 |
|       | 12-14          | 100.0  | 100.0 | 100.0 | 100.0 | 97.6  | 86.1  | 61.0 | 31.9 | 15.7 | 74.7                           | 919                 |
|       | 15-17          | 100.0  | 100.0 | 100.0 | 100.0 | 98.3  | 90.3  | 70.5 | 40.3 | 15.9 | 77.2                           | 919                 |
|       | 18-20          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.2  | 94.6 | 75.1 | 37.6 | 86.4                           | 925                 |
|       | 21-23          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.8  | 98.4 | 90.0 | 53.4 | 90.0                           | 921                 |
|       | TOTALS         | 100.0  | 100.0 | 100.0 | 100.0 | 99.5  | 96.7  | 89.1 | 72.9 | 44.5 | 86.1                           | 7379                |

GLOBAL CLIMATOLOGY BRANCH  
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**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS**

### RELATIVE HUMIDITY

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: NOV

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |       |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NUM<br>OBS |
|--------|----------------|--|-------|-------|-------|-------|-------|------|------|------|------------------------------|---------------------|
|        |                | 10%  | 20%   | 30%   | 40%   | 50%   | 60%   | 70%  | 80%  | 90%  |                              |                     |
| NOV    | 00-02          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.9  | 98.5 | 89.2 | 55.2 | 90.1                         | 895                 |
|        | 03-05          | 100.0  | 130.0 | 100.0 | 100.0 | 100.0 | 99.9  | 98.0 | 90.6 | 57.8 | 90.4                         | 896                 |
|        | 06-08          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.5 | 88.3 | 55.2 | 90.3                         | 892                 |
|        | 09-11          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.2  | 93.0 | 71.9 | 35.5 | 86.0                         | 892                 |
|        | 12-14          | 100.0  | 130.0 | 100.0 | 100.0 | 100.0 | 98.4  | 92.0 | 76.1 | 44.8 | 79.0                         | 891                 |
|        | 15-17          | 100.0  | 130.0 | 100.0 | 99.9  | 99.7  | 96.1  | 84.2 | 58.7 | 24.9 | 82.3                         | 893                 |
|        | 18-20          | 100.0  | 130.0 | 100.0 | 100.0 | 100.0 | 99.4  | 94.7 | 82.4 | 47.6 | 87.7                         | 893                 |
|        | 21-23          | 100.0  | 130.0 | 100.0 | 100.0 | 100.0 | 99.8  | 97.8 | 86.8 | 50.4 | 89.4                         | 897                 |
| TOTALS |                | 100.0  | 130.0 | 100.0 | 100.0 | 99.8  | 98.3  | 92.6 | 76.6 | 42.5 | 86.9                         | 7149                |

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIUTY

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-86  
MONTH: DEC

| MONTH | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |       |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NUV<br>OBS |
|-------|----------------|--|-------|-------|-------|-------|-------|------|------|------|------------------------------|---------------------|
|       |                | 10%  | 20%   | 30%   | 40%   | 50%   | 60%   | 70%  | 80%  | 90%  |                              |                     |
| DEC   | 00-02          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.1 | 89.1 | 59.4 | 90.5                         | 897                 |
|       | 03-05          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.7 | 88.7 | 61.4 | 90.6                         | 900                 |
|       | 06-08          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.4 | 90.3 | 62.3 | 91.0                         | 895                 |
|       | 09-11          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.8  | 96.2 | 84.7 | 51.0 | 89.1                         | 900                 |
|       | 12-14          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.0  | 88.5 | 65.2 | 32.7 | 84.3                         | 894                 |
|       | 15-17          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.7  | 94.7 | 75.8 | 36.6 | 86.3                         | 891                 |
|       | 18-20          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.7 | 87.7 | 51.2 | 89.4                         | 901                 |
|       | 21-23          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.9 | 87.4 | 56.3 | 90.1                         | 903                 |
|       | TOTALS         | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.8  | 96.7 | 83.6 | 51.4 | 88.9                         | 7186                |

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

#### RELATIVE HUMIDITY

STATION NUMBER: 037460 STATION NAME: BOSCOMBE DOWN UK

PERIOD OF RECORD: 77-81  
MONTH: ALL

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NUMBER<br>OBS |
|--------|----------------|--|-------|-------|-------|-------|------|------|------|------|------|------------------------------|------------------------|
|        |                | 10%  | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | 90%  |      |                              |                        |
| JAN    | ALL            | 100.0  | 130.0 | 100.0 | 100.0 | 99.7  | 98.7 | 92.8 | 75.8 | 42.1 | 86.5 | 7104                         |                        |
| FEB    |                | 100.0  | 100.0 | 100.0 | 99.8  | 99.1  | 96.1 | 87.1 | 70.5 | 39.8 | 84.9 | 6697                         |                        |
| MAR    |                | 100.0  | 130.0 | 99.9  | 99.5  | 97.2  | 91.3 | 81.4 | 65.4 | 38.7 | 83.0 | 7369                         |                        |
| APR    |                | 100.0  | 99.9  | 99.4  | 96.7  | 89.7  | 79.3 | 65.8 | 46.8 | 23.7 | 75.7 | 7130                         |                        |
| MAY    |                | 100.0  | 99.9  | 98.8  | 96.1  | 89.7  | 79.6 | 67.0 | 49.4 | 28.0 | 76.4 | 7391                         |                        |
| JUN    |                | 100.0  | 130.0 | 99.9  | 99.1  | 94.6  | 82.5 | 68.9 | 49.4 | 27.6 | 77.9 | 7057                         |                        |
| JUL    |                | 100.0  | 130.0 | 100.0 | 98.7  | 91.9  | 79.6 | 65.0 | 46.4 | 24.6 | 76.4 | 7242                         |                        |
| AUG    |                | 100.0  | 100.0 | 100.0 | 99.7  | 94.0  | 83.0 | 71.4 | 55.0 | 31.8 | 79.2 | 7218                         |                        |
| SEP    |                | 100.0  | 130.0 | 100.0 | 99.7  | 96.6  | 89.1 | 78.9 | 60.4 | 35.5 | 81.8 | 7101                         |                        |
| OCT    |                | 100.0  | 130.0 | 100.0 | 100.0 | 99.5  | 96.7 | 89.1 | 72.9 | 44.5 | 86.1 | 7379                         |                        |
| NOV    |                | 100.0  | 130.0 | 100.0 | 100.0 | 99.8  | 98.3 | 92.6 | 76.6 | 42.5 | 86.9 | 7149                         |                        |
| DEC    |                | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.8 | 96.7 | 83.6 | 51.4 | 88.9 | 7186                         |                        |
| TOTALS |                | 100.0  | 130.0 | 99.8  | 99.1  | 96.0  | 89.5 | 79.7 | 62.7 | 35.7 | 82.0 | 86023                        |                        |

|           |         |           |             |         |
|-----------|---------|-----------|-------------|---------|
| PPPPPPPP  | AAAAAA  | RRRRRRRR  | TTTTTTTTTT  | FFFFFFF |
| PPPPPPPPP | AAAAAAA | RRRRRRRRR | TTTTTTTTTTT | FFFFFFF |
| PP PP     | AA AA   | RR RR     | TT          | FF      |
| PP PP     | AA AA   | RR RR     | TT          | FF      |
| PPPPPPPPP | AA AA   | RRRRRRRRR | TT          | FF      |
| PPPPPPPP  | AAAAAAA | RRRRRRRR  | TT          | FFFFF   |
| PP        | AAAAAAA | RR RR     | TT          | FFFFF   |
| PP        | AA AA   | RR RR     | TT          | FF      |
| PP        | AA AA   | RR RR     | TT          | FF      |
| PP        | AA AA   | RR RR     | TT          | FF      |

PRESSURE SUMMARIES

STATION PRESSURE SUMMARIES

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).  
PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND OBSERVATION COUNTS.

SEA LEVEL PRESSURE SUMMARIES

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).  
PRESENTED ARE THE MEANS, STANDARD DEVIATIONS AND OBSERVATION COUNTS.

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

SEA LEVEL PRESSURE IN HPS FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 037460 STATION NAME: BOONCOMP DWN UK

PERIOD OF RECORD: 77-87

| HOURS | STATS    | JAN      | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | ANN    |       |
|-------|----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| LST   |          |          |        |        |        |        |        |        |        |        |        |        |        |        |       |
|       | MEAN     | 1015.9   | 1016.8 | 1012.4 | 1015.7 | 1014.0 | 1016.7 | 1018.3 | 1016.8 | 1018.0 | 1015.4 | 1015.8 | 1012.1 | 1015.6 |       |
| 00    | SD       | 13.310   | 12.732 | 12.577 | 13.563 | 8.392  | 7.079  | 5.993  | 6.665  | 8.878  | 11.372 | 11.590 | 15.117 | 10.873 |       |
|       | TOT ORS1 | 287      | 276    | 307    | 295    | 306    | 294    | 292    | 291    | 294    | 305    | 297    | 298    | 354    |       |
|       | MEAN     | 1015.5   | 1016.5 | 1011.8 | 1015.4 | 1013.6 | 1016.3 | 1017.7 | 1016.3 | 1017.5 | 1015.0 | 1015.3 | 1011.8 | 1015.2 |       |
| 03    | SD       | 13.651   | 12.743 | 12.733 | 10.579 | 8.503  | 7.238  | 6.390  | 6.823  | 9.025  | 11.288 | 11.559 | 14.893 | 10.882 |       |
|       | TOT ORS1 | 293      | 278    | 306    | 298    | 310    | 294    | 302    | 298    | 297    | 306    | 299    | 299    | 350    |       |
|       | MEAN     | 1015.2   | 1015.6 | 1011.6 | 1015.5 | 1013.7 | 1016.5 | 1017.8 | 1016.4 | 1017.5 | 1114.9 | 1015.2 | 1011.6 | 1015.2 |       |
| 06    | SD       | 13.750   | 12.093 | 12.881 | 10.633 | 8.670  | 7.295  | 6.421  | 6.947  | 9.222  | 11.295 | 11.579 | 14.893 | 10.961 |       |
|       | TOT ORS1 | 295      | 280    | 304    | 296    | 310    | 297    | 293    | 294    | 296    | 309    | 298    | 297    | 357    |       |
|       | MEAN     | 1015.9   | 1017.1 | 1012.6 | 1015.8 | 1013.9 | 1016.6 | 1018.0 | 1016.8 | 1017.9 | 1015.7 | 1016.0 | 1012.3 | 1015.6 |       |
| 09    | SD       | 13.604   | 12.116 | 12.905 | 10.708 | 8.715  | 7.322  | 6.309  | 6.907  | 9.220  | 11.343 | 11.547 | 14.984 | 10.971 |       |
|       | TOT ORS1 | 296      | 281    | 304    | 298    | 308    | 295    | 298    | 302    | 295    | 307    | 297    | 303    | 357    |       |
|       | MEAN     | 1015.8   | 1017.0 | 1012.4 | 1015.4 | 1013.5 | 1016.5 | 1017.6 | 1016.5 | 1017.6 | 1015.3 | 1015.7 | 1012.2 | 1015.4 |       |
| 12    | SD       | 13.890   | 12.125 | 12.884 | 10.553 | 8.538  | 7.171  | 6.283  | 6.664  | 8.998  | 11.393 | 11.440 | 15.047 | 10.895 |       |
|       | TOT ORS1 | 291      | 280    | 307    | 297    | 308    | 296    | 299    | 298    | 293    | 310    | 296    | 298    | 357    |       |
|       | MEAN     | 1014.9   | 1016.1 | 1011.4 | 1014.9 | 1013.2 | 1016.0 | 1017.3 | 1016.0 | 1017.2 | 1014.7 | 1015.1 | 1011.5 | 1014.8 |       |
| 15    | SD       | 13.723   | 12.790 | 12.607 | 10.413 | 8.409  | 6.926  | 5.906  | 6.413  | 8.637  | 11.142 | 11.501 | 14.846 | 10.792 |       |
|       | TOT ORS1 | 294      | 276    | 305    | 297    | 305    | 294    | 298    | 288    | 297    | 307    | 294    | 296    | 359    |       |
|       | MEAN     | 1015.6   | 1016.4 | 1011.5 | 1014.9 | 1013.2 | 1015.9 | 1016.9 | 1016.0 | 1017.2 | 1015.1 | 1015.7 | 1011.8 | 1015.0 |       |
| 18    | SD       | 13.641   | 12.713 | 12.333 | 10.322 | 8.194  | 6.835  | 5.846  | 6.151  | 8.605  | 11.205 | 11.314 | 14.902 | 10.647 |       |
|       | TOT ORS1 | 292      | 279    | 304    | 298    | 309    | 292    | 301    | 290    | 294    | 308    | 297    | 302    | 356    |       |
|       | MEAN     | 1016.0   | 1014.9 | 1012.3 | 1015.6 | 1014.2 | 1016.7 | 1018.0 | 1016.9 | 1017.9 | 1015.5 | 1015.8 | 1011.8 | 1015.6 |       |
| 21    | SD       | 13.614   | 12.774 | 12.491 | 10.459 | 8.215  | 6.912  | 5.831  | 6.353  | 8.837  | 11.264 | 11.861 | 15.174 | 10.812 |       |
|       | TOT ORS1 | 291      | 276    | 307    | 294    | 309    | 292    | 294    | 295    | 297    | 308    | 300    | 301    | 359    |       |
|       | MEAN     | 1015.6   | 1016.7 | 1011.9 | 1015.4 | 1013.7 | 1016.4 | 1017.7 | 1016.5 | 1017.6 | 1015.2 | 1015.6 | 1011.9 | 1015.3 |       |
| ALL   | SD       | 13.658   | 12.102 | 12.659 | 10.520 | 8.451  | 7.096  | 6.128  | 6.621  | 8.918  | 11.277 | 11.532 | 14.957 | 10.845 |       |
|       | HOURS    | TOT ORS1 | 2333   | 2266   | 2449   | 2375   | 2465   | 2354   | 2377   | 2356   | 2358   | 2460   | 2378   | 2394   | 28525 |

END

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